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ARO-15

Observations of Solar Flux at the Algonquin Radio Observatory on 2800 MHz and the Dominion Radio Astrophysical Observatory on 2700 MHz, Monthly Reports January 1985 - December 1985

M.B. Bell, H.P. Gagnon, and J.D. Moore

February 1986

Canada

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OBSERVATIONS OF SOLAR FLUX AT THE ALGONQUIN RADIO OBSERVATORY ON 2800 MHz AND THE DOMINION RADIO ASTROPHYSICAL OBSERVATORY ON 2700 MHz MONTHLY REPORTS JANUARY 1985 - DECEMBER 1985

M.B. Bell, H.P. Gagnon, and J.D. Moore

ARO-15
NRCC No. 25417

FEBRUARY 1986

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ABSTRACT

Daily tabulations of the radio flux at 2800 MHz from the Algonquin Radio Observatory (ARO) and at 2700 MHz from the Dominion Radio Astrophysical Observatory (DRAO) are presented for the year 1985. This period marks the tenth year into sunspot cycle 21.

RÉSUMÉ

Présentation des tables quotidiennes du flux radio à 2800 MHz par l'Observatoire radioastronomique d'Algonquin et à 2700 MHz par l'Observatoir fédéral de radioastrophysique pour l'année 1985, période couvrant la dixième année du cycle 21 de taches solaires.

OBSERVATIONS OF SOLAR FLUX AT THE ALGONQUIN RADIO OBSERVATORY ON 2800 MHz AND THE DOMINION RADIO ASTROPHYSICAL OBSERVATORY ON 2700 MHz

Monthly Reports, January 1985 - December 1985

INTRODUCTION

Tabulations of the daily values of radio solar flux and burst characteristics are listed on a monthly basis after visual examination of the records obtained from the Algonquin Radio Observatory (ARO) and from the Dominion Radio Astrophysical Observatory (DRAO) on 2800 MHz and 2700 MHz respectively. A description of burst types can be found in ARO Report No. 4 which includes extra terms introduced as required by the recommendations of Commission 10 of the International Astronomical Union. The ARO solar site was converted to computer operation in November 1977 and in preparing the Ottawa report, interesting large bursts recorded at ARO are now plotted by computer to a time resolution equal to that obtained on the original record which is in the order of 1 s.

A bibliography of internal reports related to the data is given in a Publication of the Astrophysics Branch (PAB), Vol. 1(2), June 1973.

Tabulated Data

Daily values of solar flux at 2800 MHz recorded at National Research Council. A collection of monthly and annual publications available in the Canada Institute for Scientific and Technical Information (formerly the National Science Library) under call number QB475,N27.

Vol. 1 1946 - June 1955, Series A.

Vol. 2 July 1955 - December 1959. Series A revised and Series B starts.

Vol. 3 January 1960 -July 1964. Series B

Vol. 4 August 1964 - December 1966. Series B until December 1965, then Series C.

Vol. 5 January 1967 - December 1969. Series C. Contains Radio and Electrical Engineering Division Unclassified Report ERB-790 with extensive descriptive text for calibration and burst descriptions.

Vol. 6 January 1970 - December 1972. Series C. Contains Astrophysics Branch Report, PAB Vol. 1, No. 2 with extensive Bibliography of NRC

Divisional Reports relating to the 2800 MHz Solar Noise Program of total flux measurements.

Vol. 7 January 1973 - December 1976. Series C. Contains Report No. ARO 4 of the Herzberg Institute of Astrophysics with a revised schematic of idealized burst profiles compatible with the IAU Instruction Manual and a select bibliography with comments to show the evolutionary appearance of the Ottawa types. Also contains PAB Vol. 1, No. 4 with E-W solar strip scans of the sun at 10-7 cm from June 1968 to December 1973.

ARO-5 August 1977. A Working Collection of Daily 2800 MHz Solar Flux Values (1946 - 1976).

ARO-6 June 1979. Historical Background for the 1970 Absolute Calibration of Solar Flux Density at 2800 MHz and Reprint of Final Report to Members of the URSI Working Party.

ARO-7 April 1980. Observations of Solar Flux at the Algonquin Radio Observatory on 2800 MHz and the Dominion Radio Astrophysical Observatory on 2700 MHz Monthly Reports, January 1977 - December 1978.

ARO-8 June 1980. East-West Solar Scans at 10-cm Wavelength Taken at the Algonquin Radio Observatory January 1974 to December 1979.

ARO-9 September 1980. Observations of Solar Flux at the Algonquin Radio Observatory on 2800 MHz and the Dominion Radio Astrophysical Observatory on 2700 MHz Monthly reports, January 1979 - December 1979.

ARO-10 June 1981. Observations of Solar Flux at the Algonquin Radio Observatory on 2800 MHz and the Dominion Radio Astrophysical Observatory on 2700 MHz Monthly Reports, January 1980 - December 1980.

ARO-11 March 1982. Observations of Solar Flux at the Algonquin Radio Observatory on 2800 MHz and the Dominion Radio Astrophysical Observatory on 2700 MHz Monthly Reports, January 1981 - December 1981.

ARO-12 March 1983. Observations of Solar Flux at the Algonquin Radio Observatory on 2800 MHz and the Dominion Radio Astrophysical Observatory on 2700 MHz Monthly Reports, January 1982 - December 1982.

ARO-13 February 1984. Observations of Solar Flux at the Algonquin Radio Observatory on 2800 MHz and the Dominion Radio Astrophysical Observatory on 2700 MHz Monthly Reports, January 1983 - December 1983.

ARO-14 February 1985. Observations of Solar Flux at the Algonquin Radio Observatory on 2800 MHz and the Dominion Radio Astrophysical Observatory on 2700 MHz, Monthly Reports, January 1984 - December 1984.

January 1985

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OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
Jan.	Series C	Series C	Series D
1	70.7	68.4	61.6
2	70.1	67.8	61.0
3	70.0	67.7	60.9
4	70.1	67.8	61.0
5	69.3	67.0	60.3
6	70.2	67.9	61.1
7	70.4	68.1	61.3
8	69.7	67.4	60.7
9	70.4	68.1	61.3
10	69.7	67.4	60.7
11	70.0	67.7	60.9
12	70.7	68.4	61.6
13	75.1	72.6	65.3
14	74.8	72.3	65.1
15	74.9	72.4	65.2
16	77.2	74.7	67.2
17	78.3	75.8	68.2
18	76.5	74.1	66.7
19	77.9	75.4	67.9
20	84.4#	81.7#	73.5#
21	87.7#	84.9#	76.4#
22	88.0	85.3	76.8
23	85.1	82.5	74.3
24	80.7	78.2	70.4
25	76.3	73.9	66.5
26	73.3	71.0	63.9
27	71.7	69.5	62.5
28	71.8	69.6	62.6
29	70.8	68.7	61.8
30	70.4	68.3	61.5
31	72.0a	69.9a	62.9a
Mean:	74.5	72.1	64.9

Corrected for burst.
a) Extrapolated

January 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
Jan.	14:00	17:00	20:00	19:35
1	71.1	70.7	70.8	----
2	69.6	70.1	70.8	69.4
3	68.7	70.0	70.8	68.9
4	70.0	70.1	70.5	68.7
5	68.8	69.3	69.9	----
6	69.5	70.2	71.1	----
7	69.2	70.4	70.7	69.6
8	69.1	69.7	70.6	68.6
9	69.4	70.4	70.9	69.2
10	68.2	69.7	70.7	68.5
11	68.7	70.0	71.3	69.2
12	68.9	70.7	72.0	----
13	74.2	75.1	76.4	----
14	74.1	74.8	77.0	75.6
15	74.1	74.9	75.7#	73.8#
16	75.0	77.2	78.4	76.3#
17	76.5	78.3	79.3	77.2
18	75.4	76.5	76.3	74.8
19	75.2	77.9	79.9	----
20	84.5#	84.4#	87.1	----
21	86.5#	87.7#	89.8#	87.5#
22	87.0	88.0	89.1	86.4
23	86.8	85.1	85.1#	82.3#
24	79.9	80.7	80.3	78.5
25	75.7	76.3	76.3	74.3
26	72.9	73.3	73.6	----
27	71.4	71.7	72.2	----
28	70.8	71.8	72.3	70.4
29	69.7	70.8	71.0	69.8
30	69.6	70.4	71.0	69.4
31	71.2a	72.0a	71.9	70.6
Mean:	73.6	74.5	75.3	73.6

Corrected for burst.
a) Extrapolated

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY	CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Jan.			H M	H M	MINUTES		
13	22 GRF	SimpIIIF GRF	18 [illegible]3	18 37	37	1.6	0.8
14	1 S	Simple I	16 02.2	16 03	5	8.4	2.1**
15	21 GRF	SimpIIIA GRF	19 10	19 35	105	3.8	2.0
	46F C	Complex F (-)	19 11.8	19 14.3	9	38.0	9.2
	2 S/F	Simple IF	19 34	19 37	10	5.2	2.4
	1 S	Simple I	19 47	19 49	8	1.0	0.5**
16	22 GRF	SimpIIIF GRF	17 10	19 25	155	2.0	1.0
17	1 S	Simple I	14 44.8	14 45	1	2.2	1.0**
20	21 GRF	SimpIIIA GRF E	13 30	16 25	>330	6.6	---**
	8 S	Spike	13 54.2	13 54.5	0.4	4.8	---**
	8 S	Spike	18 24.4	18 24.7	0.5	2.2	1.1
	240 R	Rise Only	19 10	19 30	20	2.6	1.3
	21 GRF	SimpIIIA GRF	20 35	Indet.	>140	21.0	---
	4 S/F	Simple IIF	20 44	20 46	9	102.0	16.6
21	21 GRF	SimpIIIA GRF	13 35	14 55	190	11.4	5.7**
	1 S	Simple I	14 45.8	14 46.5	1.5	2.0	1.0**
	3 S	Simple II	15 15.5	15 17	4.5	14.2	7.1**
	+30 PBI	P.B. Incr. A	15 20	15 20	30	3.2	1.6**
	2 S/F	Simple IF	15 37	15 37.9	1	3.8	---**
	21 GRF	SimpIIIA GRF	16 48	17 45	275	17.6	8.4
	46F C	Complex F (-)	16 48	16 53.3	17	22.0	7.9
	1 S	Simple I	17 11.5	17 13	4	7.4	3.2
	2 S/F	Simple IF	21 29	21 30.5	4	7.8	3.5*
	29 PBI	P.B. Increase	21 33	21 33	15	2.4	1.2*
	3 S	Simple II	22 08.5	22 09.8	2	16.4	8.2*
	29 PBI	P.B. Increase	22 10.5	22 10.5	4	3.4	1.7*
22	8 S	Spike	16 31.9	16 31.9	0.5	2.2	0.8**
	21 GRF	SimpIIIA GRF	18 55	19 00	25	1.6	0.9
	1 S	Simple I	18 55.2	18 56	2.5	1.6	0.8
	1 S	Simple I	20 55.3	20 55.5	1	3.2	1.6
23	1 S	Simple I	17 31	17 32.2	6	1.4	0.7
	20 GRF	SimpIII GRF	19 05	19 35	115	3.2	1.6
	20 GRF	SimpIII GRF	21 10	21 30	50	1.2	0.6*

* Only observed at DRAO, Penticton.
**Only observed at ARO, Lake Traverse.

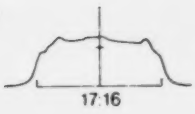
EAST-WEST SOLAR SCANS

JANUARY 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution

01 70.7



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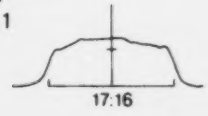

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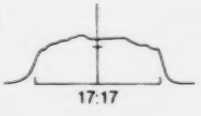

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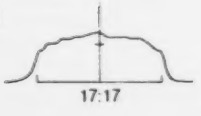

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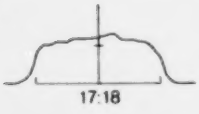

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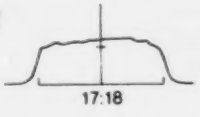

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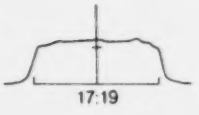

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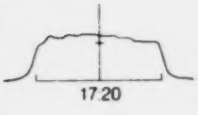
09 70.4



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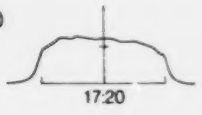

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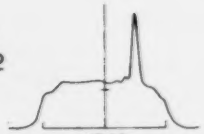
13 75.1

14 74.8

15 74.9

16 77.2



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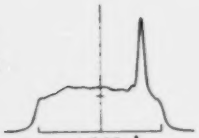

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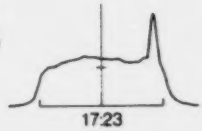

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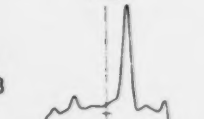

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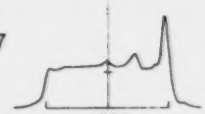
22 88.0

23 85.1

24 80.7



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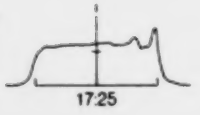
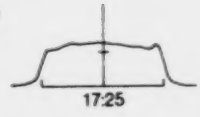


26 73.3

27 71.7



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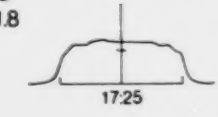

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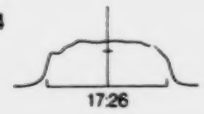

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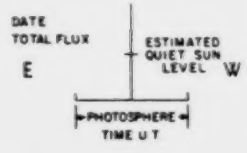

February 1985

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NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
Feb.	Series C	Series C	Series D
1	74.4	72.2	65.0
2	76.0	73.8	66.4
3	75.8	73.6	66.2
4	72.9	70.9	63.8
5	73.3	71.2	64.1
6	72.6	70.6	63.5
7	72.3	70.3	63.3
8	74.5	72.5	65.3
9	75.2	73.2	65.9
10	75.6	73.6	66.2
11	75.2	73.2	65.9
12	74.2	72.3	65.1
13	72.6	70.8	63.7
14	72.4	70.6	63.5
15	72.0	70.2	63.2
16	71.5	69.8	62.8
17	72.6	70.9	63.8
18	75.1#	73.4#	66.1#
19	77.9	76.1	68.5
20	76.7	75.0	67.5
21	75.9	74.2	66.8
22	74.9	73.3	66.0
23	73.2	71.7	64.5
24	72.0	70.5	63.4
25	71.5	70.1	63.1
26	71.1	69.7	62.7
27	70.2	68.9	62.0
28	71.1	69.7	62.7
Mean:	73.7	71.9	64.7

Corrected for burst.

February 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
Feb.	14:00	17:00	20:00	19:35
1	73.8	74.4	75.6	73.3
2	75.5	76.0	77.4	----
3	74.6	75.8	76.0	----
4	72.6	72.9	73.7	72.2
5	72.9	73.3	73.9	72.8
6	72.0	72.6	72.5	71.4
7	71.3	72.3	72.5#	71.5#
8	73.7	74.5	75.1	73.4
9	74.6	75.2	75.3	----
10	74.8	75.6	76.2	----
11	74.8	75.2	75.8	74.3
12	74.2	74.2	74.6	72.8
13	72.8	72.6	72.8	71.8
14	71.6	72.4	72.8	71.9
15	71.4	72.0	72.2	71.4
16	70.8	71.5	71.6	----
17	71.3	72.6	74.1	----
18	74.6	75.1#	75.5	73.5
19	76.5	77.9	78.0	76.4
20	77.2	76.7	77.4	75.8
21	75.5	75.9	75.7	73.3
22	74.9#	74.9	74.2	72.7
23	73.5	73.2	73.8	----
24	72.2	72.0	72.0	----
25	71.3	71.5	71.6	69.8
26	71.1	71.1	71.1	69.1
27	70.3	70.2	70.8	69.9
28	69.9	71.1	71.3	69.9
Mean:	73.2	73.7	74.1	72.4

Corrected for burst.

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY	CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Feb.			H M	H M	MINUTES		
7	20	GRF SimpIII GRF	19 10	19 20	120	2.8	1.3
18	20	GRF SimpIII GRF	16 00	17 50	225	1.4	0.9
20	1	S Simple I	14 53.5	14 55	4	1.8	0.7**
	21	GRF SimpIIIA GRF	17 05	17 50	65	1.2	0.6
	1	S Simple I	17 34.2	17 34.5	1.8	0.4	---
	20	GRF SimpIII GRF	19 25	19 35	70	1.2	0.6
	2	S/F Simple IF	21 30	21 30.9	2	8.6	2.9
22	21	GRF SimpIIIA GRF E	12 55	13 10	>95	3.2	---**
	1	S Simple I	12 59.5	13 00.8	1.5	1.0	0.5**

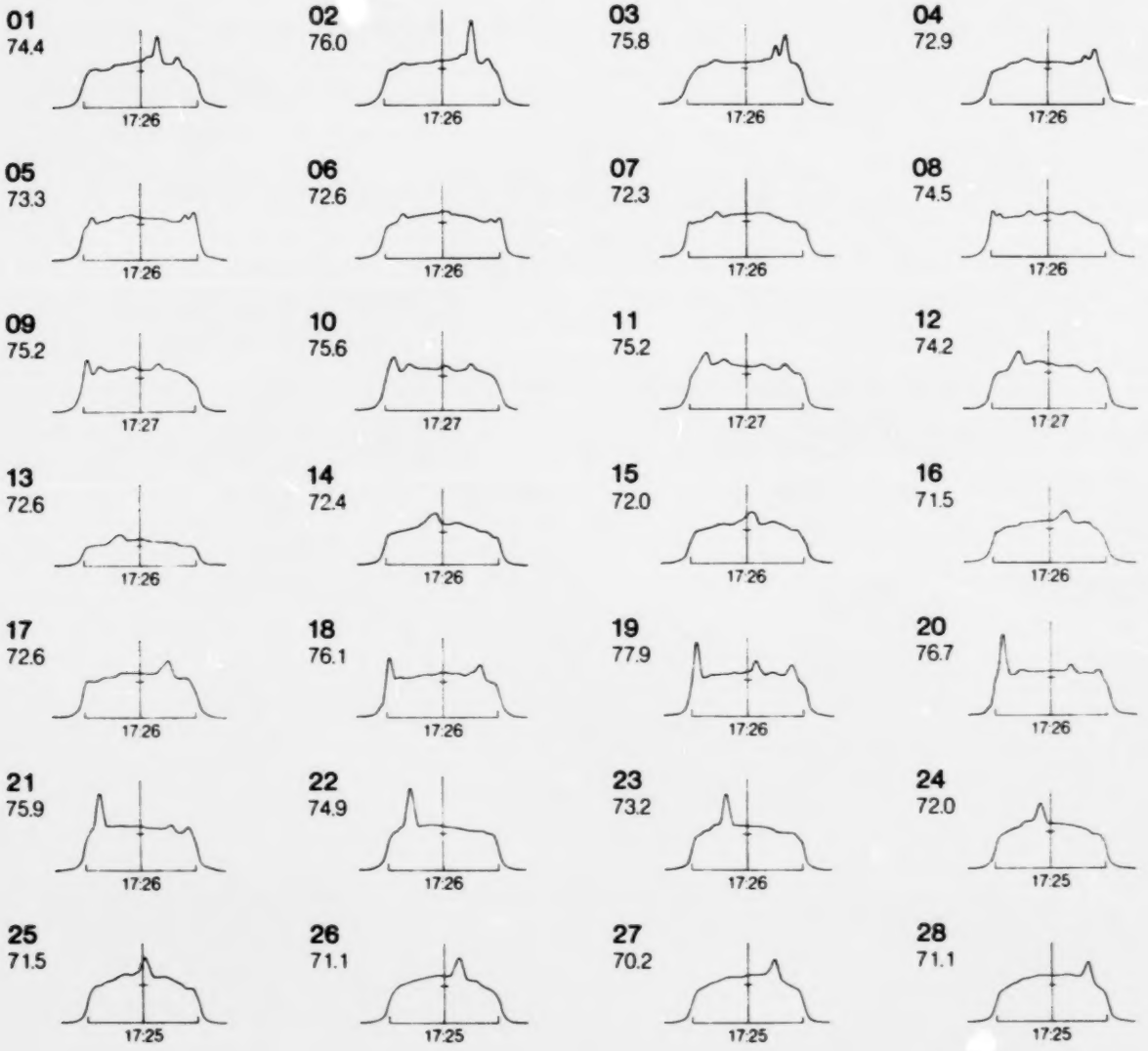
**Only observed at ARO, Lake Traverse.

EAST-WEST SOLAR SCANS

FEBRUARY 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution



March 1985

HERZBERG INSTITUTE OF ASTROPHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
Mar.	Series C	Series C	Series D
1	70.6	69.3	62.4
2	70.3	69.1	62.2
3	70.2	69.0	62.1
4	69.7	68.6	61.7
5	68.6	67.5	60.8
6	69.1	68.1	61.3
7	69.0	68.0	61.2
8	69.7	68.7	61.8
9	69.7	68.7	61.8
10	68.9	68.0	61.2
11	70.5	69.6	62.6
12	70.1	69.3	62.4
13	70.3	69.5	62.5
14	70.3	69.5	62.5
15	70.4	69.6	62.6
16	70.8	70.1	63.1
17	72.8	72.1	64.9
18	75.3	74.6	67.1
19	74.8	74.2	66.8
20	74.8	74.2	66.8
21	76.6#	76.1#	68.5#
22	76.4	75.9	68.3
23	77.8	77.3	69.6
24	80.1	79.6	71.6
25	78.9	78.5	70.6
26	80.0a	79.7a	71.7a
27	77.7a	77.4a	69.7a
28	77.9a	77.7a	69.9a
29	76.9a	76.7a	69.0a
30	76.0a	75.8a	68.2a
31	76.6a	76.4a	68.8a
Mean:	73.3	72.5	65.3

Corrected for burst.
a) Corrected for error in antenna focussing

March 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
Mar.	14:00	17:00	20:00	19:35
1	70.3	70.6	70.4	68.3
2	70.3	70.3	70.0	----
3	69.5	70.2	70.2	----
4	69.5	69.7	69.3	68.0
5	68.8	68.6	68.8	67.3
6	68.1	69.1	69.0	66.7
7	68.7	69.0	69.3	67.4
8	69.5	69.7	69.4	68.0
9	69.6	69.7	69.4	----b
10	68.7	68.9	68.8	----b
11	69.9	70.5	70.3	69.2
12	70.0	70.1	70.1	69.2
13	69.9	70.3	70.4	69.3
14	70.4	70.3	70.1	68.6
15	70.2	70.4	70.3	69.5
16	69.7	70.8	71.1	----
17	72.0	72.8	73.0	----
18	74.2	75.3	74.6#	73.5#
19	74.4	74.8	74.7	73.3
20	74.9	74.8	75.3	74.0
21	76.6	76.6#	76.1	74.3#
22	75.5	76.4	76.8	74.3
23	76.9	77.8	78.2	----
24	79.5	80.1	79.7	----
25	78.7	78.9	78.9	76.5
26	79.7a	80.0a	79.7a	77.4
27	77.8a	77.7a	77.9a	75.6
28	78.1a	77.9a	77.0a	74.8
29	77.1a	76.9a	77.0a	74.8
30	76.6a	76.0a	76.0a	----
31	76.2a	76.6a	76.4a	----
Mean:	72.9	73.3	73.2	71.4

Corrected for burst.
a) Corrected for error in antenna focussing
b) No observation

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY		CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Mar.				H M	H M	MINUTES		
8	20	GRF	SimpIII GRF	14 30	14 35	55	1.2	0.6**
17	20	GRF	SimpIII GRF	19 50	20 05	60	1.2	0.6
18	20	GRF	SimpIII GRF	19 27	20 20	100	1.4	0.7
21	┌21	GRF	SimpIIIA GRF	15 04	15 11	35	1.2	0.8**
	| 2	S/F	Simple IF	15 04.5	15 05	1	3.6	1.8**
	└ 1	S	Simple I	15 06.6	15 07	1.5	1.4	0.8**
	20	GRF	SimpIII GRF	15 50	16 45	235	2.6	1.3
	┌21	GRF	SimpIIIA GRF	22 20	22 35	40	3.6	1.8
	| 4	S/F	Simple IIF	22 24	22 25.7	5	12.4	4.6
	└ 2	S/F	Simple IF	22 33.9	22 34.3	1	6.2	---
23	1	S	Simple I	16 11.5	16 12.5	2.5	1.8	0.6
25	2	S/F	Simple IF	23 31.5	23 33.2	5	5.8	2.2*

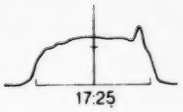
* Only observed at DRAO, Penticton.
**Only observed at ARO, Lake Traverse.

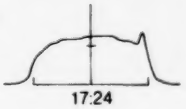
EAST-WEST SOLAR SCANS

MARCH 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution

01 70.6


02 70.3


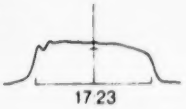
03 70.2

04 69.7

05 68.6

06 69.1

07 69.0

08 69.7


09 69.7

10 68.9

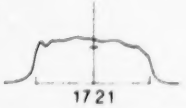
11 70.5

12 70.1

13 70.3

14 70.3

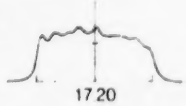
15 70.4

16 70.8


17 72.8

18 75.3

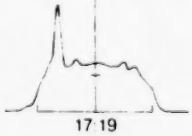
19 74.8

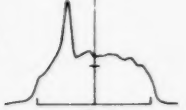
20 74.8


21 79.1

22 76.4

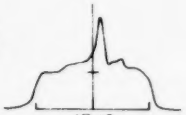
23 77.8

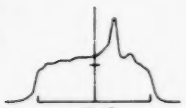
24 80.1


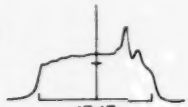
25 78.9


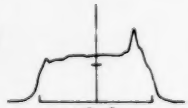
26 80.0

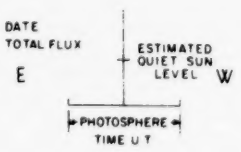
27 77.7

28 77.9


29 76.9


30 76.0


31 76.6




April 1985

HERZBERG INSTITUTE OF ASTROPHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
Apr.	Series C	Series C	Series D
1	72.3	72.2	65.0
2	72.7	72.6	65.3
3	72.5a	72.5a	65.3a
4	71.8	71.9	64.7
5	71.1	71.2	64.1
6	70.4	70.5	63.4
7	70.2	70.3	63.3
8	69.7	69.9	62.9
9	69.2	69.4	62.5
10	69.4	69.7	62.7
11	68.7	69.0	62.1
12	69.3	69.6	62.6
13	69.4	69.8	62.8
14	70.2	70.6	63.5
15	69.5	70.0	63.0
16	68.9	69.4	62.5
17	69.6	70.2	63.2
18	71.1	71.7	64.5
19	71.1	71.7	64.5
20	71.6	72.3	65.1
21	77.1	77.9	70.1
22	88.8	89.8	80.8
23	92.3#	93.3#	84.0#
24	87.9#	89.0#	80.1#
25	94.1	95.2	85.7
26	87.2#	88.3#	79.5#
27	79.5	80.6	72.5
28	77.0	78.1	70.3
29	82.0	83.2	74.9
30	79.6	80.8	72.7
Mean:	75.1	75.7	68.1

Corrected for burst.
a) Corrected on account of wet snow on antenna.

April 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
Apr.	14:00	17:00	20:00	19:35
1	71.2	72.3	73.0	71.4
2	72.4	72.7	72.1	70.5
3	72.5a	72.5a	73.3	71.1
4	71.6	71.8	71.8#	70.1
5	70.6	71.1	71.1	----
6	70.3	70.4	70.5	----
7	70.2	70.2	70.1	----
8	68.8	69.7	69.5	----
9	69.1	69.2	69.3	68.0
10	69.5	69.4	69.6	68.2
11	69.2	68.7	68.5	67.5
12	68.9	69.3	69.5	67.6
13	69.3	69.4	70.1	----
14	69.6	70.2	71.0	----
15	69.4	69.5	69.4	68.3
16	68.7	68.9	69.1	67.1
17	69.1	69.6	70.0	68.9
18	70.1	71.1	71.3	70.2
19	71.5	71.1	71.3	69.8
20	70.8	71.6	72.3	----
21	75.2	77.1	79.5	----
22	85.8	88.8	89.9	86.8
23	91.6	92.3#	93.2#	90.6#
24	88.1	87.9#	89.0#	86.7#
25	93.2	94.1	95.8	90.9#
26	86.5	87.2#	87.9	85.7
27	80.2	79.5	80.6#	----
28	77.1	77.0	79.1	----
29	81.1	82.0	82.3	79.8
30	79.9	79.6	80.5	78.1
Mean:	74.7	75.1	75.7	74.9

Corrected for burst.
a) Corrected on account of wet snow on antenna.

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY		CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Apr.				H M	H M	MINUTES		
3	1	S	Simple I	19 14.2	19 14.9	1	0.8	0.4
	1	S	Simple I	20 32	20 32.5	3	0.9	0.4
4	20	GRF	SimpIII GRF	19 30	20 00	110	1.6	0.8
21	240	R	Rise Only	19 00	22 20	200	5.2	2.6
22	240	R	Rise Only	15 25	15 38	13	1.6	0.8
	240A	R	Rise Only A	16 39	16 51	12	1.4	---
	3	S	Simple II	16 39.3	16 40	2	30.0	12.0
	29	PBI	P.B. Increase	16 41.3	16 41.3	9	3.4	1.7
	20	GRF	SimpIII GRF	18 50	19 10	50	1.6	0.8
	1	S	Simple I	19 52	19 52.1	2	9.2	2.3
	20	GRF	SimpIII GRF	20 20	20 50	95	2.8	1.6
	1	S	Simple I	22 07	22 07.2	1.2	2.2	1.1
	240	R	Rise Only	22 30	23 40	70	2.8	1.6*
23	20	GRF	SimpIII GRF	14 25	14 50	55	2.0	1.2
	22	GRF	SimpIIIF GRF	16 10	17 05	100	3.4	1.7
	22	GRF	SimpIIIF GRF	18 00	20 20	440	11.4	6.0
24	-	-	Incomplete	E11 00	11 10	>180	24.0	---**
	20	GRF	SimpIII GRF	14 40	15 05	50	1.8	0.9
	22	GRF	SimpIIIF GRF	15 40	16 55	195	11.4	5.4
	20	GRF	SimpIII GRF	19 10	19 50	90	2.2	1.1
	8	S	Spike	20 48.1	20 48.2	0.8	1.2	0.6
	1	S	Simple I	20 50	20 50.3	1	2.8	1.4
	240	R	Rise Only	21 10	21 35	25	3.6	1.8
25	20	GRF	SimpIII GRF	11 45	12 00	45	2.2	1.1**
	22	GRF	SimpIIIF GRF	19 05	19 30	45	1.8	0.9
	21	GRF	SimpIIIA GRF	20 35	21 05	55	4.4	2.2
	22	GRF	SimpIIIF GRF	20 35	20 48	20	4.0	2.0
	21	GRF	SimpIIIA GRF	21 40	23 00	175	8.4	4.0
	22	GRF	SimpIIIF GRF	22 30	22 36.7	18	12.8	5.4
26	20	GRF	SimpIII GRF	16 00	17 15	195	3.4	1.7
	21	GRF	SimpIIIA GRF	22 40	23 00	170	10.4	4.6*
	1	S	Simple I	22 50	22 50.8	1.2	2.8	1.4*
27	20	GRF	SimpIII GRF	12 20	12 35	100	1.8	0.9**
	20	GRF	SimpIII GRF	19 25	22 00	325	7.0	3.5
28	20	GRF	SimpIII GRF	20 50	22 15	140	2.6	1.3
29	20	GRF	SimpIII GRF	14 20	14 50	50	1.2	0.6

* Only observed at DRAO, Penticton.
**Only observed at ARO, Lake Traverse.

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

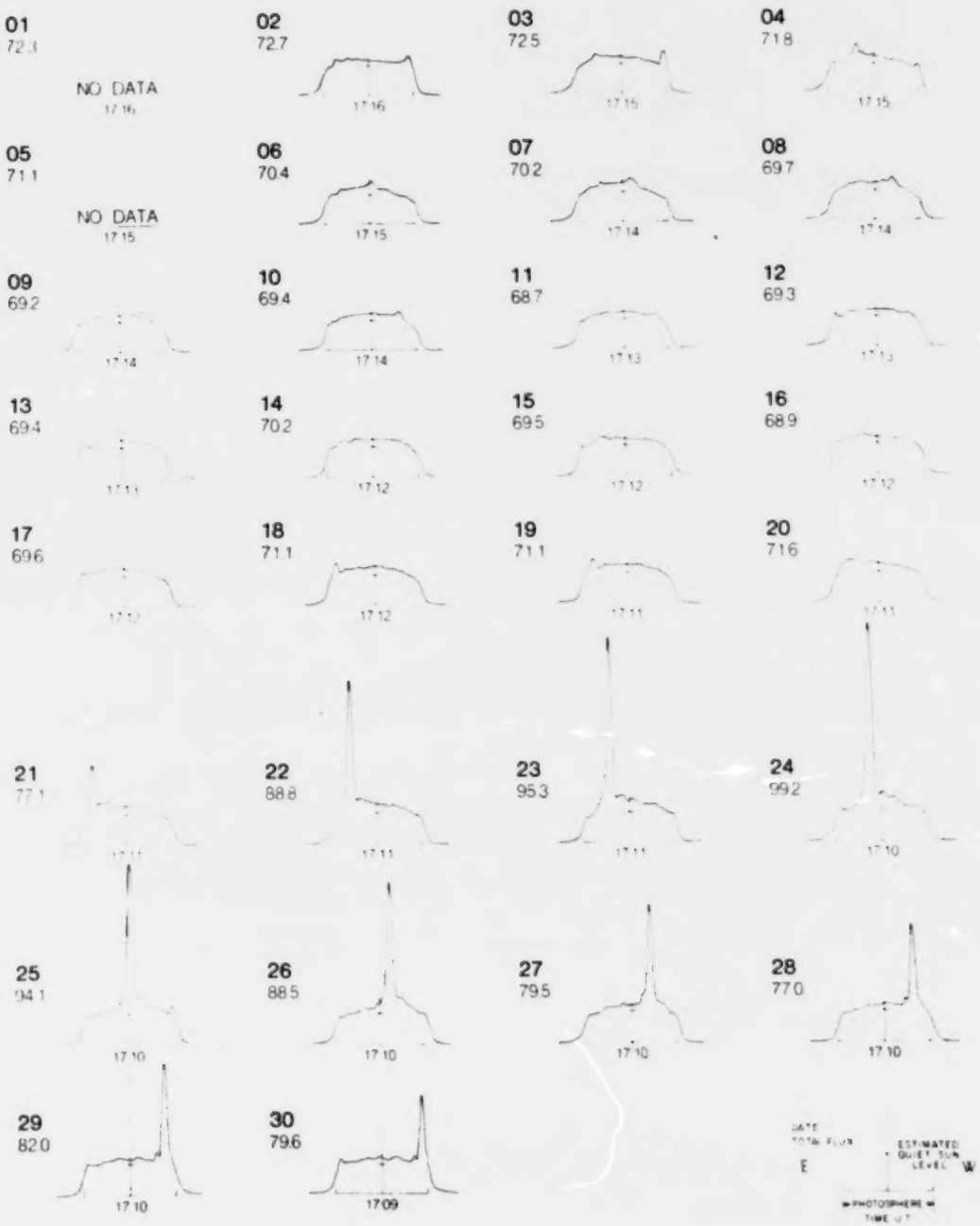
DATE	KEY	CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Apr.			H M	H M	MINUTES		
29	20 GRF	SimpIII GRF	17 55	18 35	95	2.6	1.5
	20 GRF	SimpIII GRF	19 55	20 50	115	2.4	1.2

EAST-WEST SOLAR SCANS

APRIL 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution



May 1985

HERZBERG INSTITUTE OF ASTROPHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
May.	Series C	Series C	Series D
1	79.3#	80.6#	72.5#
2	75.3	76.5	68.8
3	71.4	72.6	65.3
4	69.6	70.8	63.7
5	70.1	71.4	64.3
6	73.7	75.0	67.5
7	77.6	79.1	71.2
8	82.1	83.7	75.3
9	87.9	89.6	80.6
10	89.9	91.7	82.5
11	88.1	89.9	80.9
12	90.2	92.1	82.9
13	90.0	91.9	82.7
14	88.7#	90.7#	81.6#
15	90.0#	92.0#	82.8#
16	93.4	95.5	85.9
17	90.2	92.3	83.1
18	90.5	92.7	83.4
19	87.5	89.6	80.6
20	84.7	86.7	78.0
21	82.3#	84.4#	76.0#
22	80.7#	82.7#	74.4#
23	78.0	80.0	72.0
24	76.3	78.3	70.5
25	75.2	77.2	69.5
26	73.5	75.5	67.9
27	72.6	74.6	67.1
28	70.8	72.7	65.4
29	70.5	72.5	65.3
30	69.5	71.4	64.3
31	67.7	69.6	62.6
Mean:	80.2	82.0	73.8

Corrected for burst.

May 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
May.	14:00	17:00	20:00	19:35
1	79.2	79.3#	79.5	----
2	78.0	75.3	76.0	73.9
3	71.6	71.4	71.9	69.7
4	70.1	69.6	70.0	----
5	69.9	70.1	71.4	----
6	73.8#	73.7	74.4	72.5
7	77.1	77.6	81.5	77.0
8	81.0	82.1	83.4	82.4
9	87.3	87.9	87.7#	85.2#
10	89.6	89.9	91.0	89.0
11	88.4	88.1	88.7	----
12	89.5	90.2	90.9#	----
13	90.6	90.0	91.4	87.8
14	88.6	88.7#	89.3	86.6
15	88.9	90.0#	92.0	89.0
16	93.3	93.4	93.5	90.7
17	91.1	90.2	91.4	89.3
18	90.4	90.5	90.9	----
19	87.2	87.5	87.9	----
20	85.9	84.7	85.9	----
21	82.8	82.3#	82.9	81.5
22	79.8	80.7#	80.9	78.9
23	78.3	78.0	78.7	76.3
24	75.7	76.3	76.0	74.1
25	75.1	75.2	75.7	----
26	73.1	73.5	73.9	----
27	72.6	72.6	73.2	71.1
28	70.8	70.8	71.6	69.4
29	70.4	70.5	70.8	68.5
30	69.1	69.5	69.2	67.4
31	67.4	67.7	67.7	65.7
Mean:	80.2	80.2	80.9	78.4

Corrected for burst.

May 1985

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY	CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
May.			H M	H M	MINUTES		
1	1 S	Simple I	12 49	12 51	4	1.8	0.9**
	20 GRF	SimpIII GRF	13 25	13 30	25	1.2	0.6**
	r 27A RF	Rise & Fall A	14 28	Indet.	200	1.8	1.7
	| 24 R	Rise	14 28	14 30	2	1.8	0.9
	| 40 F	Fluctuations	14 29.8	14 31.1	3	45.0	---
	| 24P R	Post Rise	14 30	-- --	175	1.8	---
	|r21 GRF	SimpIIIA GRF	14 47	14 55	55	2.6	1.3
	|L 1 S	Simple I	14 47.5	14 48.5	3	1.8	1.0
	L 26 FAL	Fall	17 25	17 48	23	-1.8	-0.9
	1 S	Simple I	19 17.5	19 18.3	1.5	3.6	1.2
	240 R	Rise Only	23 15	23 40	25	2.2	1.1*
2	20 GRF	SimpIII GRF	00 15	00 25	60	3.0	1.3*
	20 GRF	SimpIII GRF	17 30	17 50	135	1.8	0.9
3	20 GRF	SimpIII GRF	00 15	00 40	40	3.4	2.2*
6	20 GRF	SimpIII GRF	13 45	14 10	95	1.4	0.7
7	240 R	Rise Only	19 48	19 58	10	2.2	1.1
8	8 S	Spike	17 42.3	17 42.5	0.5	0.8	0.4
9	20 GRF	SimpIII GRF	15 25	16 30	95	1.8	0.9
	20 GRF	SimpIII GRF	17 35	17 43	20	1.4	0.7
	r21 GRF	SimpIIIA GRF	19 25	20 00	90	2.0	1.5
	L 1 S	Simple I	19 53.2	19 54.5	2	1.8	0.9
10	20 GRF	SimpIII GRF	15 55	16 02	12	1.8	0.8
	20 GRF	SimpIII GRF	21 25	22 00	60	1.6	0.7
12	r21 GRF	SimpIIIA GRF	18 15	18 27	135	6.0	1.5
	L 1 S	Simple I	18 23	18 25	4	3.8	1.9
13	20 GRF	SimpIII GRF	14 30	15 25	100	1.8	0.9
	8 S	Spike	16 42	16 42	0.1	3.0	---
	r23 GRF	SimpIIIAF GRF	18 18	18 26	70	20.0	7.2
	L 3 S	Simple II	18 21	18 22.3	3	12.0	3.6
	20 GRF	SimpIII GRF	20 40	20 55	40	1.8	0.9
	20 GRF	SimpIII GRF	21 35	21 40	20	1.2	0.8
	2 S/F	Simple IF	22 05.8	22 05.9	1	5.0	1.6
	20 GRF	SimpIII GRF	22 15	22 20	25	1.2	0.6
	20 GRF	SimpIII GRF	22 48	23 00	12	1.2	0.6*
14	r23 GRF	SimpIIIAF GRF	00 05	00 25	>90	4.8	---*
	| 1 S	Simple I	00 11.7	00 11.9	1	1.6	0.8*

* Only observed at DRAO, Penticton.
**Only observed at ARO, Lake Traverse.

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY		CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
May.				H M	H M	MINUTES		
14	⌊ 1	S	Simple I	00 25	00 26	2	3.0	1.5*
	20	GRF	SimpIII GRF	14 25	15 05	95	1.6	0.8
	20	GRF	SimpIII GRF	16 15	17 20	125	2.2	1.1
	20	GRF	SimpIII GRF	19 05	19 10	35	1.4	0.7
	1	S	Simple I	23 24	23 25	3	1.2	0.8*
15	8	S	Spike	00 17.5	00 17.7	0.3	2.0	---*
	20	GRF	SimpIII GRF	E14 15	14 20	>55	2.2	---**
	20	GRF	SimpIII GRF	16 00	16 30	80	1.6	0.8
	22	GRF	SimpIIIF GRF	17 30	17 42	65	8.6	3.0
	20	GRF	SimpIII GRF	19 22	19 24	15	3.0	1.3
	⌈240A	R	Rise Only A	21 00	21 30	30	1.6	0.8
	⌊ 1	S	Simple I	21 25.5	21 26.1	2	2.2	0.6
	40	F	Fluctuations	22 54	22 55.5	3	2.0	---*
16	20	GRF	SimpIII GRF	15 40	15 50	25	2.2	1.0
	20	GRF	SimpIII GRF	16 30	16 33	15	1.6	0.8
	20	GRF	SimpIII GRF	17 36	17 59	35	3.6	1.6
	8	S	Spike	20 29.5	20 29.6	0.8	88.0	22.0
17	20	GRF	SimpIII GRF	12 25	12 30	55	3.0	1.7**
	20	GRF	SimpIII GRF	E14 15	14 20	>50	3.6	---**
	2	S/F	Simple IF	18 51	18 52.5	6	3.0	1.5
	1	S	Simple I	22 35	22 36	4	1.0	0.5
18	⌈21	GRF	SimpIIIA GRF	14 50	15 02	65	7.2	2.6
	⌊ 1	S	Simple I	14 55.8	14 57.5	3.5	5.4	2.7
	⌈23	GRF	SimpIIIAF GRF	17 55	18 45	80	3.2	1.5
	⌊20	GRF	SimpIII GRF	18 25	18 29	15	6.6	2.2
	20	GRF	SimpIII GRF	19 54	19 57	18	1.6	1.0
	20	GRF	SimpIII GRF	21 15	21 25	35	2.4	1.6
19	20	GRF	SimpIII GRF	11 35	11 38	30	4.0	1.3**
	20	GRF	SimpIII GRF	13 20	14 35	100	2.0	1.0
	⌈21	GRF	SimpIIIA GRF	15 20	15 45	100	4.0	2.0
	⌊22	GRF	SimpIIIF GRF	15 27.5	15 29	15	12.2	4.4
	⌈23	GRF	SimpIIIAF GRF	17 10	17 35	75	8.0	2.7
	| 2	S/F	Simple IF	17 17	17 18.8	5	6.2	3.0
	⌊ 4	S/F	Simple IIF	17 31	17 33	5	16.0	5.6
	1	S	Simple I	20 52	20 52.5	2.5	3.4	1.2
	20	GRF	SimpIII GRF	22 38	22 44	20	1.4	0.7*

* Only observed at DRAO, Penticton.
**Only observed at ARO, Lake Traverse.

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY	CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
May.			H M	H M	MINUTES		
20	23	GRF SimpIIIAF GRF	14 00	14 15	75	3.0	1.5
	1	S Simple I	14 03	14 04	4	1.6	0.8*
	20	GRF SimpIII GRF	19 20	19 30	30	3.6	1.2
21	20	GRF SimpIII GRF	16 10	17 10	110	1.6	0.8
	1	S Simple I	18 49	18 50.9	5	6.8	1.7
	20	GRF SimpIII GRF	21 45	21 55	40	1.6	0.8
22	1	S Simple I	12 44	12 45.5	4	1.8	0.8**
	20	GRF SimpIII GRF	16 55	17 10	65	4.6	1.6
	22	GRF SimpIIIF GRF	22 35	22 38	25	3.0	1.3
24	20	GRF SimpIII GRF	11 00	11 10	50	1.8	0.6**
25	23	GRF SimpIIIAF GRF	12 20	12 35	190	5.0	2.0**
	2	S/F Simple IF	12 29.7	12 30.8	2.5	3.8	1.8**
	1	S Simple I	12 38	12 40.5	4	2.0	1.0**
	1	S Simple I	13 09	13 12	6	1.8	0.9**
	20	GRF SimpIII GRF	19 25	19 33	25	2.0	1.0

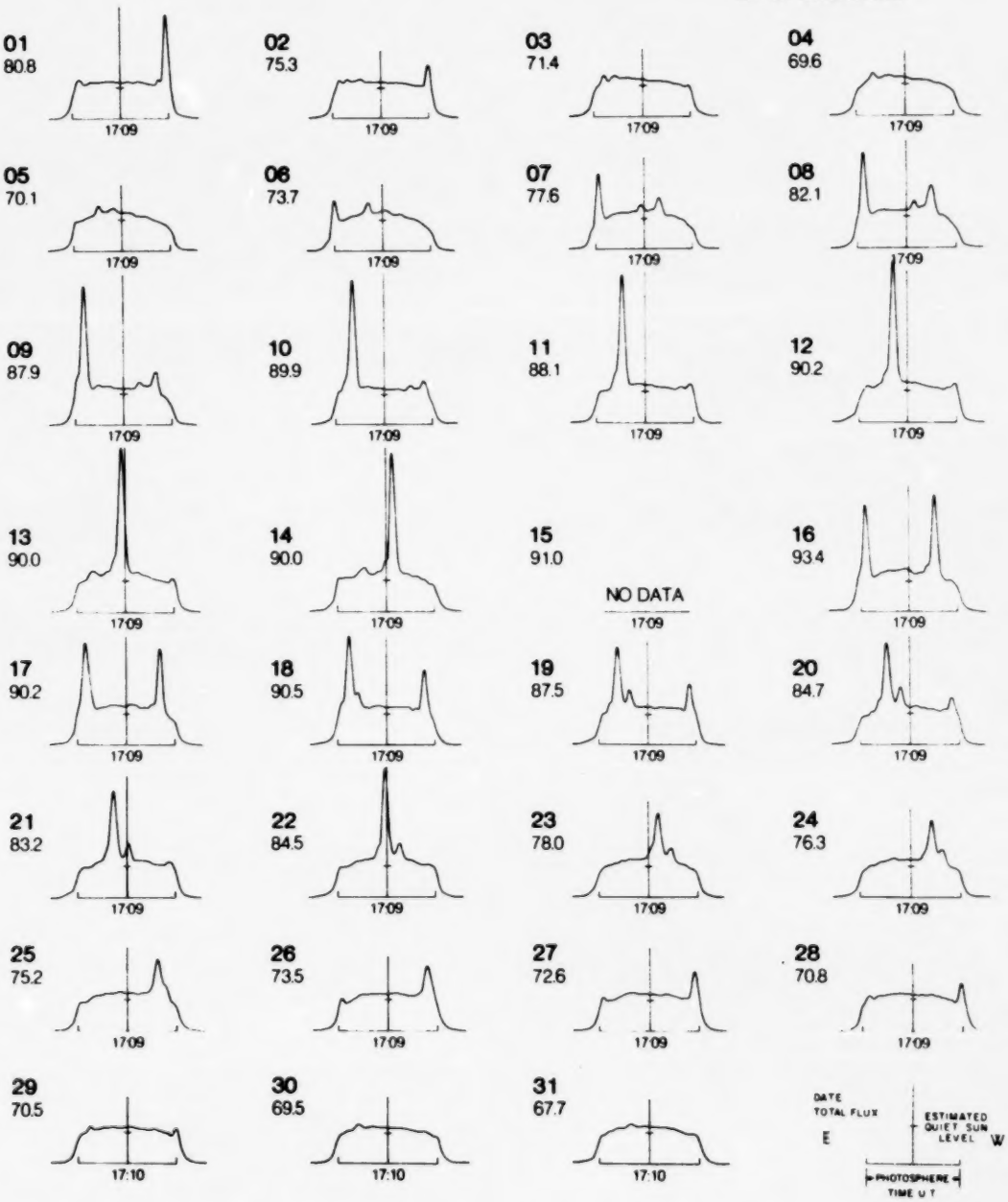
* Only observed at DRAO, Penticton.
**Only observed at ARO, Lake Traverse.

EAST-WEST SOLAR SCANS

MAY 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution



June 1985

HERZBERG INSTITUTE OF ASTROPHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
Jun.	Series C	Series C	Series D
1	67.5	69.5	62.5
2	70.4	72.4	65.2
3	72.5	74.6	67.1
4	75.3	77.5	69.8
5	81.8	84.3	75.9
6	84.9	87.4	78.7
7	85.8	88.4	79.6
8	86.3	88.9	80.0
9	87.1	89.8	80.8
10	88.9	91.7	82.5
11	88.5	91.2	82.1
12	87.1	89.8	80.8
13	86.4	89.2	80.3
14	82.7	85.3	76.8
15	81.2	83.8	75.4
16	78.4	80.9	72.8
17	74.9	77.3	69.6
18	71.4	73.8	66.4
19	69.9	72.2	65.0
20	69.6	71.9	64.7
21	69.2	71.5	64.3
22	69.3	71.6	64.4
23	69.5	71.8	64.6
24	68.5	70.8	63.7
25	68.7	71.0	63.9
26	67.7	70.0	63.0
27	67.9	70.2	63.2
28	68.7	71.0	63.9
29	69.9	72.3	65.1
30	72.3	74.8	67.3
Mean:	76.1	78.5	70.6

June 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
Jun.	14:00	17:00	20:00	19:35
1	67.2	67.5	68.7	----
2	69.4	70.4	71.0	----
3	72.1	72.5	73.0	70.6
4	74.7	75.3	76.4	73.5
5	81.4	81.8	82.5	79.7
6	84.1	84.9	86.1	82.3
7	84.9	85.8	86.4	85.1
8	86.3	86.3	86.9	----
9	87.8	87.1	87.5	----
10	89.5	88.9	89.6	87.5
11	89.2	88.5	87.8	86.1
12	86.4	87.1	86.9	84.9
13	85.3	86.4	86.0	84.8
14	83.0	82.7	82.9	81.1
15	80.7	81.2	81.7	----
16	77.3	78.4	77.4	----
17	74.8	74.9	74.7	72.8
18	71.0	71.4	71.7	69.6
19	69.9	69.9	70.2	68.7
20	69.3	69.6	69.7	68.0
21	69.0	69.2	69.7	67.0
22	68.1	69.3	68.9	----
23	68.8	69.5	69.3	----
24	67.7	68.5	68.6	67.1
25	68.1	68.7	68.5	66.8
26	66.8	67.7	67.8	65.6
27	67.2	67.9	68.0	66.1
28	67.4	68.7	69.2	67.0
29	69.1	69.9	70.8	----
30	71.2	72.3	72.7	----
Mean:	75.6	76.1	76.4	74.7

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY		CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Jun.				H M	H M	MINUTES		
5	20	GRF	SimpIII GRF	14 00	14 50	90	1.6	0.8
6	20	GRF	SimpIII GRF	18 10	18 30	50	2.6	0.7
	240	R	Rise Only	19 25	20 00	35	1.8	'11
8	240	R	Rise Only	00 15	00 22	7	2.8	---*
	3	S	Simple II	14 49	14 49.5	1	11.4	2.4
9	20	GRF	SimpIII GRF	13 30	14 30	190	1.8	0.9
10	20	GRF	SimpIII GRF	12 15	12 35	65	1.4	0.7**
	20	GRF	SimpIII GRF	15 45	15 55	45	1.4	0.7
11	8	S	Spike	12 00.5	12 00.7	0.9	4.0	1.4**
14	1	S	Simple I	17 17	17 18	3	1.4	0.5
29	22	GRF	SimpIIIF GRF	23 25	23 32	15	3.8	1.3*
30	240	R	Rise Only	23 05	23 30	25	1.8	0.9*

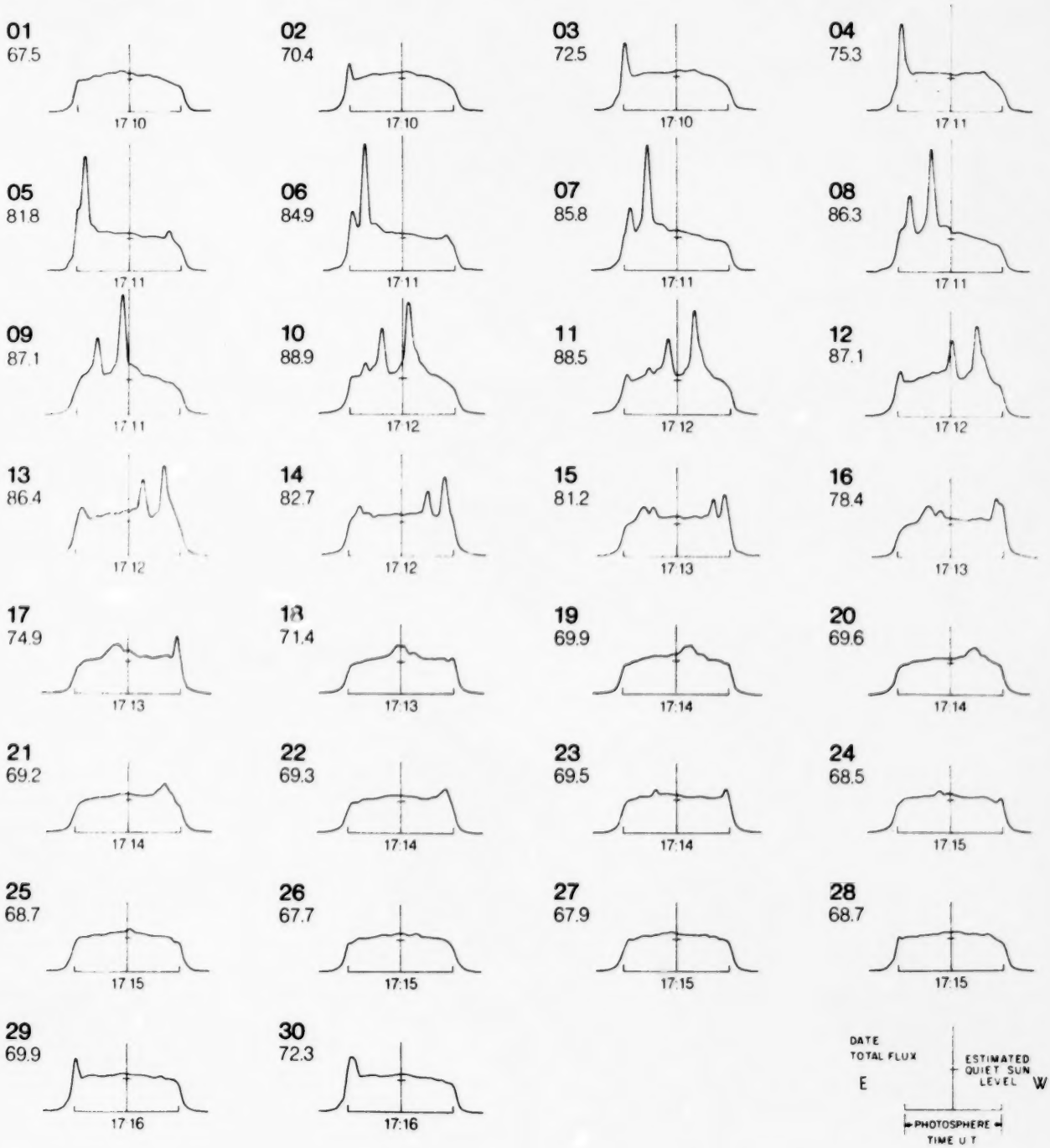
* Only observed at DRAO, Penticton.
**Only observed at ARO, Lake Traverse.

EAST-WEST SOLAR SCANS

JUNE 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution



July 1985

HERZBERG INSTITUTE OF ASTROPHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
Jul.	Series C	Series C	Series D
1	74.4	76.9	69.2
2	76.5#	79.1#	71.2#
3	78.6	81.3	73.2
4	77.8	80.4	72.4
5	80.6	83.3	75.0
6	84.6	87.5	78.8
7	94.5	97.7	87.9
8	93.5#	96.7#	87.0#
9	97.6#	100.9#	90.8#
10	101.2#	104.6#	94.1#
11	94.1	97.3	87.6
12	89.9	92.9	83.6
13	82.8	85.5	76.9
14	74.0	76.4	68.8
15	70.7	73.0	65.7
16	69.6	71.9	64.7
17	69.6	71.9	64.7
18	69.5	71.8	64.6
19	69.4	71.7	64.5
20	69.4	71.7	64.5
21	69.0	71.2	64.1
22	68.8	71.0	63.9
23	68.9	71.1	64.0
24	68.8	71.0	63.9
25	73.3	75.6	68.0
26	75.0	77.4	69.7
27	76.8	79.2	71.3
28	78.8	81.2	73.1
29	81.0	83.5	75.1
30	81.3	83.8	75.4
31	80.0	82.4	74.2
Mean:	78.7	81.3	73.2

Corrected for burst.

July 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
Jul.	14:00	17:00	20:00	19:35
1	73.3	74.4	75.6	----
2	76.0	76.5#	76.6	74.5
3	77.0	78.6	77.8	76.2
4	78.3	77.8	78.3	76.9
5	79.6#	80.6	82.2	79.7
6	83.4	84.6	85.6	----
7	93.7	94.5	95.1	----
8	93.3#	93.5#	96.0	91.3
9	97.2	97.6#	97.5	95.0
10	101.7	101.2#	100.1	98.5
11	94.1#	94.1	94.3	92.7
12	88.3	89.9	88.1	86.0#
13	84.5	82.8	81.6	----
14	74.7	74.0	73.1	----
15	70.6	70.7	70.8	68.7
16	69.5	69.6	70.3	68.4
17	68.9	69.6	69.8	67.9
18	69.1	69.5	69.4	67.1
19	68.8	69.4	69.2	67.2
20	69.1	69.4	69.5	----
21	68.5	69.0	69.0	----
22	68.8	68.8	68.9	67.3
23	68.9	68.9	68.8	66.7
24	68.8	68.8	69.8	67.3
25	72.3	73.3	74.3	71.6
26	74.2	75.0	75.3	73.0
27	76.2	76.8	77.3	----
28	76.8	78.8	79.1	----
29	80.1	81.0	81.5	79.5
30	81.6	81.3	81.1	79.4
31	80.0	80.0	79.9	77.7
Mean:	78.3	78.7	78.9	76.9

Corrected for burst.

July 1985

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY	CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Jul.			H M	H M	MINUTES		
2	21	GRF SimpIIIA GRF	11 05	11 40	175	4.8	2.4**
	20	GRF SimpIII GRF	11 07	11 10	20	6.4	3.2**
	21	GRF SimpIIIA GRF	16 05	17 10	145	3.2	1.5
	1	S Simple I	16 58	17 02	10	3.2	1.6
	23	GRF SimpIIIAF GRF	20 45	21 50	170	7.2	---
	4	S/F Simple IIF	21 14	21 22.5	29	185.0	58.0
3	20	GRF SimpIII GRF	18 30	18 55	60	1.2	0.6
4	20	GRF SimpIII GRF	12 00	12 20	180	4.6	2.2**
	20	GRF SimpIII GRF	18 30	18 55	70	2.4	1.3
5	22	GRF SimpIIIF GRF	13 45	14 00	25	1.2	---**
	1	S Simple I	22 53	22 57	10	2.2	1.2*
6	20	GRF SimpIII GRF	17 10	17 18	20	2.2	0.8
	20	GRF SimpIII GRF	22 35	23 05	60	1.6	0.8
7	21	GRF SimpIIIA GRF	15 10	15 20	35	1.8	0.9
	8	S Spike	15 40	15 40.3	0.5	20.0	6.6
	8	S Spike	16 32.2	16 32.6	0.5	3.8	---
	22	GRF SimpIIIF GRF	17 10	17 47	75	3.0	1.5
	1	S Simple I	18 40	18 42	10	1.0	0.6
	20	GRF SimpIII GRF	18 55	19 04	20	2.0	1.0
	1	S Simple I	19 30	19 34	7	1.6	0.9
	21	GRF SimpIIIA GRF	20 40	21 20	70	2.2	1.1
	8	S Spike	21 23.2	21 23.4	0.3	2.8	---
8	20	GRF SimpIII GRF	13 30	15 35	280	5.0	2.5
	240	R Rise Only	19 30	19 55	25	2.6	1.3
	20	GRF SimpIII GRF	20 25	21 15	115	2.2	1.1
9	-	- Incomplete	01 22	01 55	>35	160.0	---*
	21	GRF SimpIIIA GRF	15 40	17 00	210	3.4	1.7
	8	S Spike	15 43	15 43	0.1	4.0	---
	20	GRF SimpIII GRF	21 50	22 15	110	1.6	0.8
10	8	S Spike	00 30.9	00 31	0.5	3.0	1.2*
	32	ABS Absorption	15 45	16 30	95	-4.0	-1.8
	240	R Rise Only	22 25	22 40	15	2.0	1.2
11	21	GRF SimpIIIA GRF	13 35	13 40	55	5.4	1.8**
	4	S/F Simple IIF	13 45	13 47	4	18.0	10.0**
	29	PBI P.B. Increase	13 49	13 49	15	4.6	1.3**
	1	S Simple I	17 12	17 13.3	2.5	1.0	0.5

* Only observed at DRAO, Penticton.
**Only observed at ARO, Lake Traverse.

July 1985

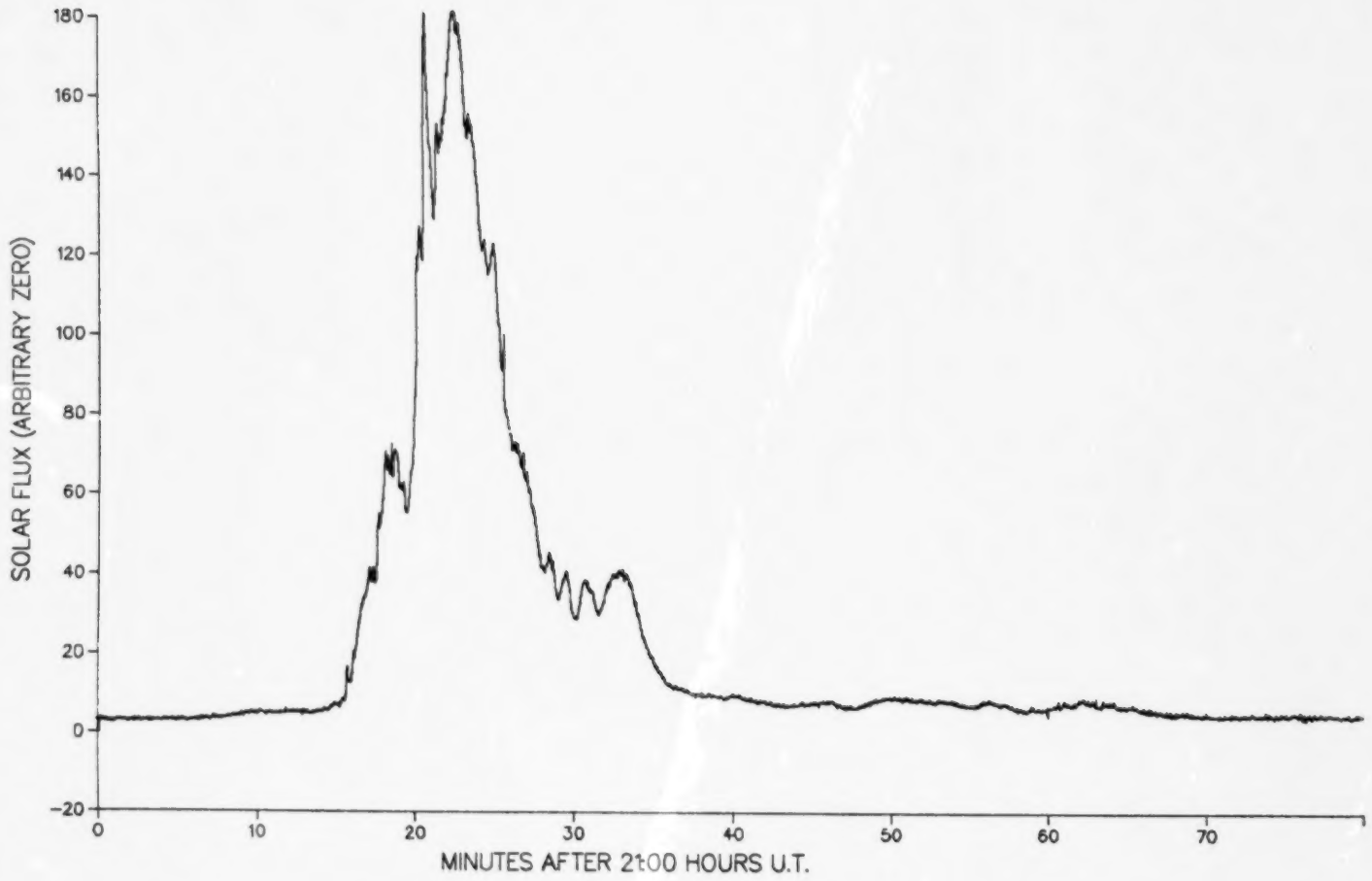
OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY		CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Jul.				H M	H M	MINUTES		
11	240	R	Rise Only	21 05	21 35	30	2.2	1.1
12	8	S	Spike	01 19.5	01 19.6	0.3	2.8	---*
	20	GRF	SimpIII GRF	11 34	11 36	20	1.4	0.7**
	20	GRF	SimpIII GRF	15 20	15 30	40	2.0	1.0
	32	ABS	Absorption	19 00	19 25	50	-2.0	-1.0
13	32	ABS	Absorption	14 15	14 55	60	-2.0	-1.0
	20	GRF	SimpIII GRF	18 55	19 05	25	1.6	0.8
	21	GRF	SimpIIIA GRF	23 55	00 05	55	1.6	0.8*
	1	S	Simple I	23 56	23 57.5	2.5	1.0	0.5*
19	20	GRF	SimpIII GRF	23 55	23 59	20	4.0	1.8*
28	8	S	Spike	23 12.9	23 13	0.3	6.4	---*
29	21	GRF	SimpIIIA GRF	15 58	16 06	25	3.0	1.0
	40	F	Fluctuations	16 03	16 04	4	4.8	---
	1	S	Simple I	16 15	16 17.5	5	2.0	0.9

* Only observed at DRAO, Penticton.
**Only observed at ARO, Lake Traverse.

JULY 02, 1985

SELECTED 2800 MHz SOLAR NOISE BURST
A.R.O. OTTAWA, ONT.
CANADA

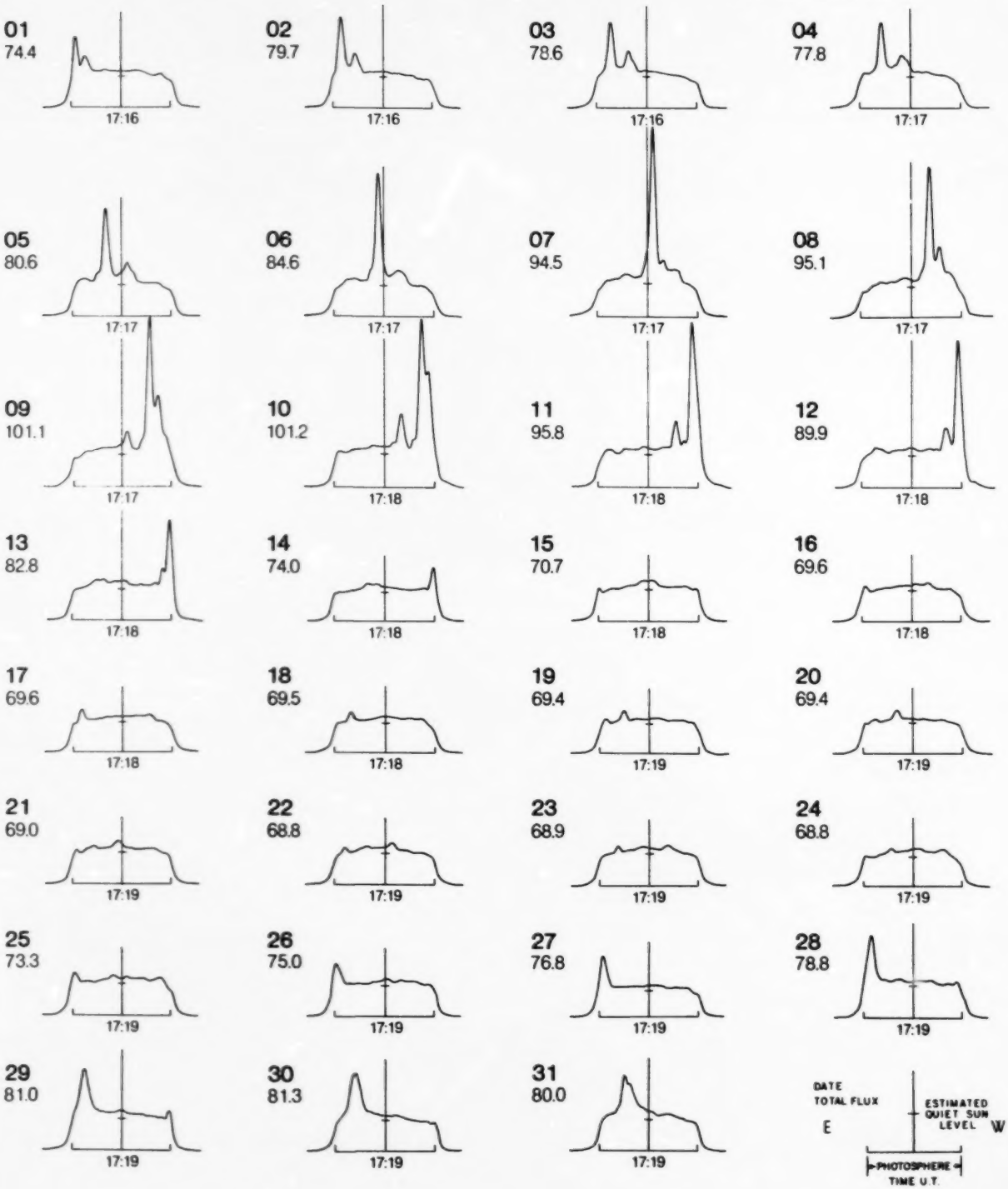


EAST-WEST SOLAR SCANS

JULY 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution



August 1985

HERZBERG INSTITUTE OF ASTROPHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
Aug.	Series C	Series C	Series D
1	78.2	80.5	72.4
2	78.1	80.4	72.4
3	76.9	79.2	71.3
4	77.1	79.3	71.4
5	76.3	78.5	70.6
6	75.7	77.9	70.1
7	77.3	79.5	71.5
8	76.4	78.5	70.6
9	72.9	74.9	67.4
10	70.9	72.8	65.5
11	66.6	68.4	61.6
12	67.9	69.7	62.7
13	67.2	68.9	62.0
14	67.5	69.3	62.4
15	67.3	69.0	62.1
16	66.5	68.2	61.4
17	66.2	67.9	61.1
18	66.9	68.6	61.7
19	67.5	69.1	62.2
20	68.9	70.6	63.5
21	68.8	70.4	63.4
22	71.1	72.7	65.4
23	71.3	72.9	65.6
24	70.5	72.1	64.9
25	70.9	72.5	65.3
26	70.8	72.3	65.1
27	71.6	73.1	65.8
28	71.7	73.1	65.8
29	71.7	73.1	65.8
30	72.5	73.9	66.5
31	72.7	74.1	66.7
Mean:	71.5	73.3	65.9

August 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
Aug.	14:00	17:00	20:00	19:35
1	78.2	78.2	78.3	76.2
2	77.3	78.1	78.2	75.9
3	76.6	76.9	77.7	----
4	76.2	77.1	76.6	----
5	76.3	76.3	76.2	----
6	75.0	75.7	76.3	73.9
7	76.9	77.3	77.6	75.9
8	76.1#	76.4	75.9	73.8
9	72.8	72.9	73.3	71.3
10	70.3	70.9	70.6	----a
11	66.7	66.6	66.9	----a
12	67.9	67.9	68.8	66.2
13	67.2	67.2	67.7	65.5
14	67.5	67.5	67.8	65.1
15	67.6	67.3	67.7	65.7
16	66.5	66.5	67.0	65.4
17	65.8	66.2	67.0	----
18	66.7	66.9	67.0	----
19	67.6	67.5	67.7	65.5
20	68.4	68.9	69.4	67.1
21	68.5	68.8	69.5	66.6
22	70.1	71.1	71.6	69.0
23	70.8	71.3	71.8	69.3
24	70.3	70.5	70.7	----
25	70.8	70.9	71.1	----
26	70.8	70.8	71.3	69.3
27	71.4	71.6	72.0	70.1
28	71.4	71.7	71.9	69.9
29	71.4	71.7	71.6	69.6
30	72.3	72.5	73.1	71.1
31	72.3	72.7	73.1	----
Mean:	71.2	71.5	71.8	69.6

Corrected for burst.
a) No observation

August 1985

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY		CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Aug.				H M	H M	MINUTES		
6	22	GRF	SimpIIIF GRF	18 24	18 26	15	1.2	0.6
	21	GRF	SimpIIIA GRF	21 00	21 16	30	1.4	0.7
	1	S	Simple I	21 08	21 08.7	2	3.2	1.1
7	20	GRF	SimpIII GRF	14 50	15 00	30	1.0	0.5
	240	R	Rise Only	18 21	18 22.5	1.5	0.8	0.4
8	20	GRF	SimpIII GRF	11 45	13 25	255	2.2	1.1**

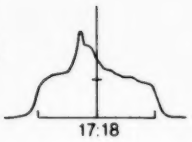
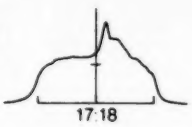
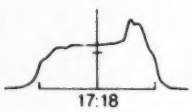
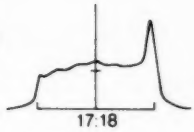
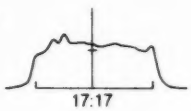
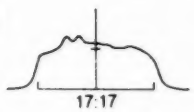
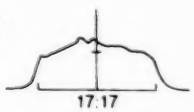
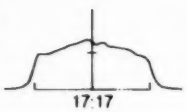
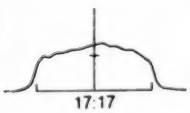
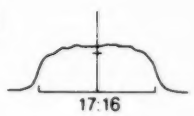
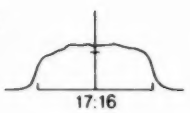
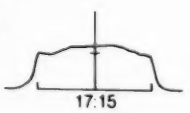
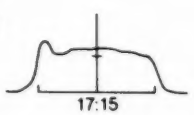
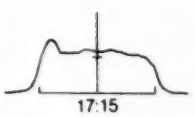
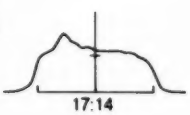
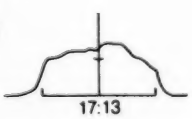
**Only observed at ARO, Lake Traverse.

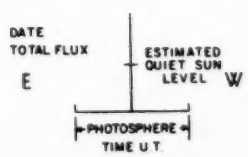
EAST-WEST SOLAR SCANS

AUGUST 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution

01 78.2  17:18	**02** 78.1 NO DATA	**03** 76.9  17:18	**04** 77.1 17:18
05 76.3  17:18	**06** 75.7 17:18	**07** 77.3  17:18	**08** 76.4 17:18
09 72.9 17:18	**10** 70.9  17:17	**11** 66.6  17:17	**12** 67.9  17:17
13 67.2  17:17	**14** 67.5  17:17	**15** 67.3 17:17	**16** 66.5  17:16
17 66.2  17:16	**18** 66.9 17:16	**19** 67.5 17:16	**20** 68.9 17:16
21 68.8  17:15	**22** 71.1 17:15	**23** 71.3  17:15	**24** 70.5  17:15
25 70.9 17:14	**26** 70.8  17:14	**27** 71.6 17:14	**28** 71.7 17:13
29 71.7 17:13	**30** 72.5  17:13	**31** 72.7 17:12	



September 1985

HERZBERG INSTITUTE OF ASTROPHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
Sep.	Series C	Series C	Series D
1	71.7	73.0	65.7
2	71.5	72.8	65.5
3	71.9	73.1	65.8
4	72.3	73.5	66.1
5	71.1	72.2	65.0
6	71.4	72.5	65.3
7	69.8	70.8	63.7
8	69.3	70.3	63.3
9	69.6	70.6	63.5
10	69.3	70.3	63.3
11	68.3	69.2	62.3
12	67.6	68.5	61.6
13	69.8	70.7	63.6
14	69.5	70.4	63.4
15	70.3	71.1	64.0
16	69.5	70.3	63.3
17	69.3	70.0	63.0
18	69.8	70.4	63.4
19	70.1	70.7	63.6
20	69.2	69.8	62.8
21	69.0	69.6	62.6
22	69.3	69.8	62.8
23	68.7	69.2	62.3
24	68.6	69.0	62.1
25	68.4	68.7	61.8
26	68.1	68.4	61.6
27	67.4	67.7	60.9
28	67.5	67.8	61.0
29	68.1	68.3	61.5
30	68.1	68.3	61.5
Mean:	69.5	70.2	63.2

September 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
Sep.	14:00	17:00	20:00	19:35
1	71.6	71.7	72.0	----a
2	71.6	71.5	71.8	----a
3	71.2	71.9	72.2	70.7
4	72.3	72.3	72.3	70.3
5	70.8	71.1	71.0	68.4
6	70.8	71.4	72.0	70.5
7	70.0	69.8	70.4	----
8	69.3	69.3	69.2	----
9	69.4	69.6	70.0	68.3
10	69.0	69.3	69.4	67.6
11	68.4	68.3	68.5	66.2
12	67.7	67.6	67.9	65.7
13	69.2	69.8	70.4	68.9
14	68.7	69.5	69.9	----
15	69.7	70.3	69.9	----
16	69.3	69.5	69.8	67.8
17	68.5	69.3	69.8	66.8
18	69.8	69.8	69.8	67.5
19	70.0	70.1	70.0	68.1
20	69.6	69.2	70.0	67.1
21	68.6	69.0	69.1	----
22	68.9	69.3	69.6	----
23	68.6	68.7	69.0	67.2
24	68.6	68.6	68.7	66.6
25	68.1	68.4	68.9	67.1
26	68.7	68.1	68.7	67.7
27	67.3	67.4	67.8	65.6
28	66.8	67.5	67.8	----
29	67.4	68.1	68.3	----
30	67.6	68.1	68.6	66.4
Mean:	69.2	69.5	69.8	67.7

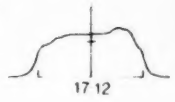
a) No observation

EAST-WEST SOLAR SCANS

SEPTEMBER 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution

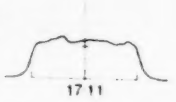
01 71.7

17.12

02 71.5

17.12

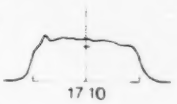
03 71.9

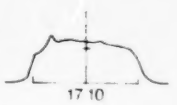
17.11

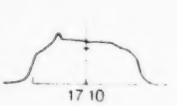
04 72.3

17.11

05 71.1

17.11

06 71.4

17.10

07 69.8

17.10

08 69.3

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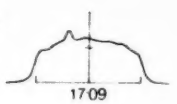
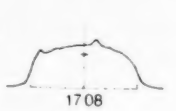
09 69.6

17.09

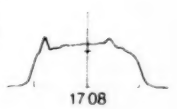
10 69.3

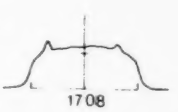
17.09

11 68.3

17.09

12 67.6

17.08

13 69.8

17.08

14 69.5

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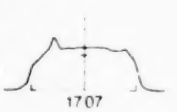
15 70.3

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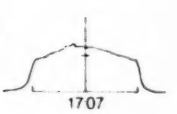
16 69.5

17.07

17 69.3

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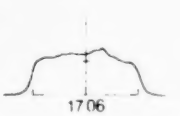
18 69.8

17.06

19 70.1

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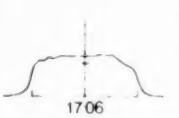
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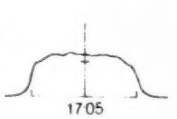
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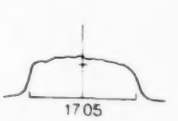
22 69.3

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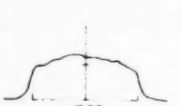
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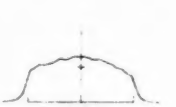
24 68.6

17.04

25 68.4

17.04

26 68.1

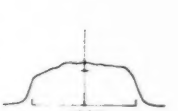
17.03

27 67.4

17.03

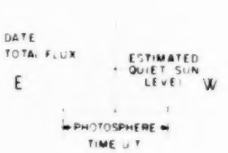
28 67.5

17.03

29 68.1

17.02

30 68.1

17.02



October 1985

HERZBERG INSTITUTE OF ASTROPHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
Oct.	Series C	Series C	Series D
1	68.2	68.3	61.5
2	67.4	67.5	60.8
3	68.6	68.7	61.8
4	68.3	68.3	61.5
5	67.0	67.0	60.3
6	66.1	66.0	59.4
7	66.0	65.9	59.3
8	65.9	65.8	59.2
9	66.2	66.0	59.4
10	66.9	66.7	60.0
11	68.0	67.7	60.9
12	67.2	66.9	60.2
13	67.0	66.7	60.0
14	70.2	69.8	62.8
15	72.1	71.7	64.5
16	73.7	73.2	65.9
17	76.0	75.5	67.9
18	76.1	75.5	67.9
19	78.3	77.7	69.9
20	80.1	79.4	71.5
21	85.5	84.7	76.2
22	95.3	94.3	84.9
23	94.1#	93.2#	83.9#
24	93.5	92.5	83.3
25	89.6#	88.5#	79.6#
26	84.0	83.0	74.7
27	79.5#	78.5#	70.6#
28	77.7	76.7	69.0
29	74.6	73.6	66.2
30	71.5	70.5	63.4
31	70.6	69.5	62.5
Mean:	74.7	74.2	66.7

Corrected for burst.

October 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
Oct.	14:00	17:00	20:00	19:35
1	67.9	68.2	68.6	66.5
2	67.4	67.4	68.7	66.7
3	68.2	68.6	69.1	67.1
4	68.1	68.3	68.5	66.6
5	67.3	67.0	67.7	----
6	66.5	66.1	66.6	----
7	66.3	66.0	66.2	64.5
8	65.7	65.9	65.9	63.6
9	66.2	66.2	66.9	64.1
10	66.1	66.9	66.9	64.9
11	67.6	68.0	68.0	66.0
12	67.0	67.2	67.2	----
13	67.3	67.0	67.7	----
14	69.4	70.2	71.2	----
15	72.2	72.1	72.3	70.0
16	73.6	73.7	74.9	72.8
17	74.9	76.0	76.2	74.9
18	75.6	76.1	76.6	74.6
19	77.9	78.3	79.1	----
20	79.8	80.1	80.2	----
21	83.6	85.5	87.8	85.0
22	94.5#	95.3	96.2	93.8
23	94.1	94.1#	94.1#	91.4#
24	94.2	93.5	93.6	91.7
25	90.5	89.6#	89.3	87.2
26	83.5	84.0	84.3	----
27	80.9	79.5#	79.5	----
28	75.9	77.7	78.0	75.9
29	74.5	74.6	74.5	72.4
30	71.6	71.5	71.8	70.5
31	69.9	70.6	71.2	68.9
Mean:	74.5	74.7	75.1	73.6

Corrected for burst.

October 1985

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY		CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Oct.				H M	H M	MINUTES		
16	2	S/F	Simple IF	20 34	20 34.2	4	2.6	0.9
	1	S	Simple I	22 01	22 02	3	2.2	1.0*
	20	GRF	SimpIII GRF	22 05	22 45	90	1.8	0.9*
18	20	GRF	SimpIII GRF	15 25	15 35	35	1.0	0.5**
	1	S	Simple I	19 14	19 15	10	0.8	0.4
20	20	GRF	SimpIII GRF	17 20	17 35	40	0.8	0.5
	1	S	Simple I	19 05.5	19 06	4	1.2	0.7
	21	GRF	SimpIIIA GRF	21 06	21 11	18	1.2	0.5
	40	F	Fluctuations	21 07.5	21 07.7	1	9.4	---
21	8	S	Spike	16 08.5	16 08.7	0.3	2.6	---
	20	GRF	SimpIII GRF	20 05	20 40	40	1.2	0.6
	240	R	Rise Only	20 50	21 35	45	3.6	1.8*
	2	S/F	Simple IF	23 10.5	23 11.5	3	4.6	2.0*
22	1	S	Simple I	13 01.7	13 01.7	1	2.0	0.6**
	27A	RF	Rise & Fall A	13 30	Indet.	190	3.4	2.8**
	24	R	Rise	13 30	14 00	30	3.4	1.7**
	24P	R	Post Rise	14 00	-- --	120	3.4	---**
	1	S	Simple I	15 26	15 26.3	1	8.8	2.2
	29	PBI	P.B. Increase	15 27	15 27	6	1.2	0.6
	26	FAL	Fall	16 00	16 40	40	-3.4	-1.7
	1	S	Simple I	17 13	17 13.8	4	1.4	0.7
	40	F	Fluctuations	20 55.4	20 55.4	0.1	3.0	---
23	21	GRF	SimpIIIA GRF	14 25	15 05	230	9.6	2.4**
	4	S/F	Simple IIF	14 57.5	14 59	6	10.2	4.8**
	27	RF	Rise & Fall	18 50	Indet.	100	1.4	1.3
	24	R	Rise	18 50	19 00	10	1.4	0.7
	24P	R	Post Rise	19 00	-- --	75	1.4	---
	26	FAL	Fall	20 15	20 30	15	-1.4	-0.7
	21	GRF	SimpIIIA GRF	21 55	22 35	85	1.8	1.0*
	2	S/F	Simple IF	22 10	22 10.5	5	6.8	2.0*
24	20	GRF	SimpIII GRF	13 15	13 25	45	2.0	1.0**
	20	GRF	SimpIII GRF	15 55	16 00	35	1.6	0.8
	32	ABS	Absorption	17 55	18 15	85	-3.0	-1.5
25	21	GRF	SimpIIIA GRF	15 40	15 55	200	4.0	2.0
	1	S	Simple I	15 44.5	15 46	4	2.6	1.3
	1	S	Simple I	22 18.5	22 19.8	2.5	2.0	1.0*

* Only observed at DRAO, Penticton.
**Only observed at ARO, Lake Traverse.

October 1985

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY		CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Oct.				H M	H M	MINUTES		
26	20	GRF	SimpIII GRF	14 30	14 50	30	1.2	0.6**
	20	GRF	SimpIII GRF	16 25	16 35	35	1.2	0.7
	22	GRF	SimpIIIF GRF	18 15	19 00	110	1.2	0.8
27	260	FAL	Fall Only	15 55	16 20	25	-1.4	-0.7**
	27	RF	Rise & Fall	16 45	Indet.	155	1.4	1.2
	24	R	Rise	16 45	17 15	30	1.4	0.7
	24P	R	Post Rise	17 15	-- --	105	1.4	---
	26	FAL	Fall	19 00	19 20	20	-1.4	-0.7
28	240	R	Rise Only	16 00	16 20	20	1.8	0.9
	20	GRF	SimpIII GRF	16 21	16 40	40	1.8	1.0

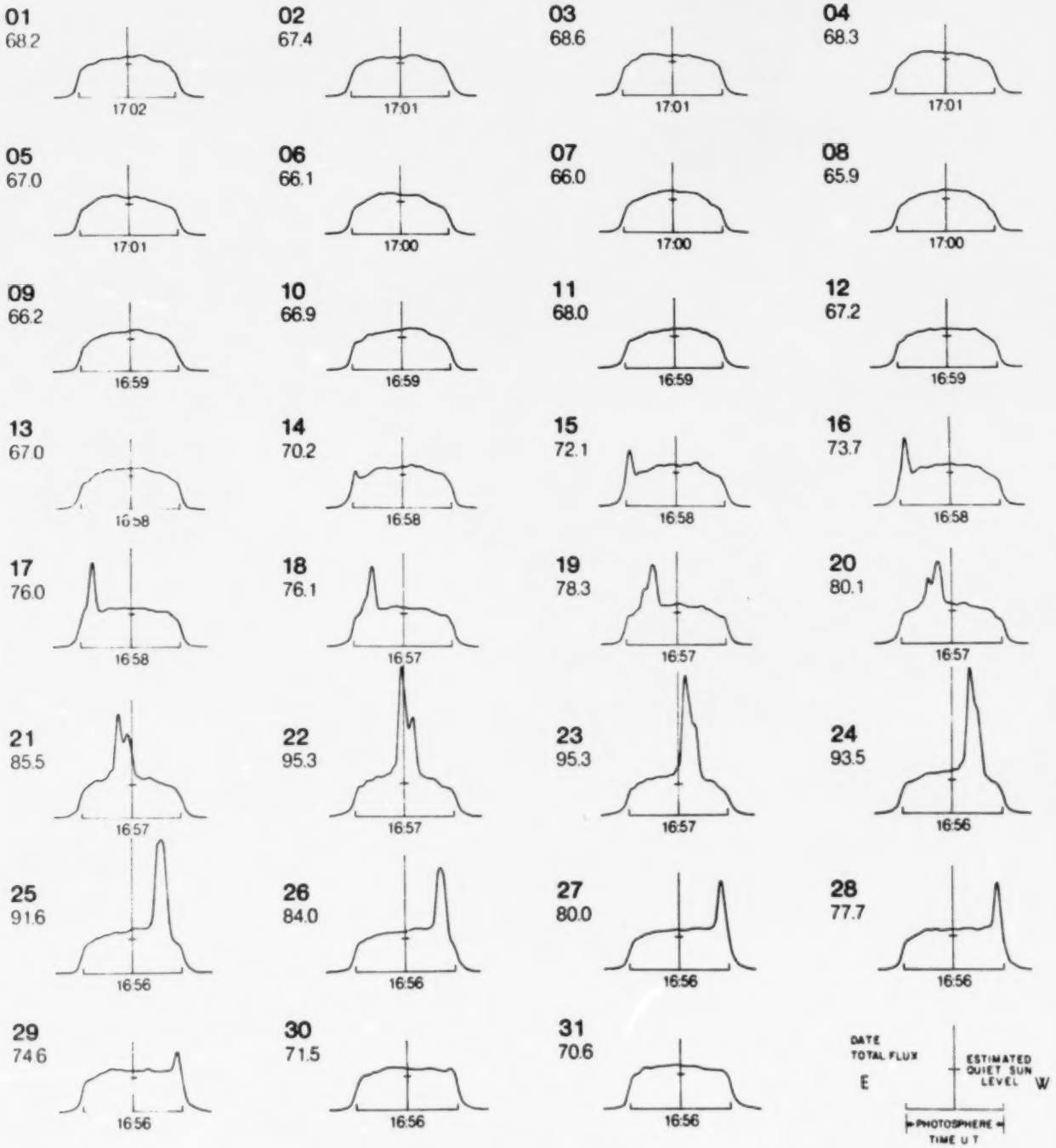
**Only observed at ARO, Lake Traverse.

EAST-WEST SOLAR SCANS

OCTOBER 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution



November 1985

HERZBERG INSTITUTE OF ASTROPHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
Nov.	Series C	Series C	Series D
1	70.1	69.0	62.1
2	69.9	68.8	61.9
3	69.1	68.0	61.2
4	68.8	67.6	60.8
5	69.7	68.5	61.6
6	71.3	70.0	63.0
7	73.1	71.8	64.6
8	75.1	73.7	66.3
9	74.3	72.9	65.6
10	74.0	72.5	65.3
11	76.2	74.7	67.2
12	76.3	74.7	67.2
13	75.9	74.3	66.9
14	78.5	76.9	69.2
15	84.0#	82.2#	74.0#
16	80.6	78.8	70.9
17	79.2	77.4	69.7
18	79.1	77.3	69.6
19	77.5	75.6	68.0
20	77.6	75.7	68.1
21	75.5	73.7	66.3
22	75.0	73.1	65.8
23	74.7	72.8	65.5
24	73.8	71.9	64.7
25	72.2	70.3	63.3
26	71.4	69.5	62.5
27	71.7	69.8	62.8
28	70.9	69.0	62.1
29	71.0	69.1	62.2
30	70.8	68.8	61.9
Mean:	74.2	72.6	65.3

Corrected for burst.

November 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
Nov.	14:00	17:00	20:00	19:35
1	69.8	70.1	70.5	68.3
2	69.4	69.9	70.4	----
3	68.6	69.1	69.5	----
4	69.0	68.8	69.2	66.7
5	69.4	69.7	70.8	68.0
6	70.6	71.3	71.9	69.7
7	72.6	73.1	74.3	72.1
8	74.7	75.1	75.3	74.0
9	74.2	74.3	74.6	----
10	73.7	74.0	74.9	----
11	75.4	76.2	77.0	----
12	76.2	76.3	76.5	75.1
13	74.9	75.9	76.7	75.0
14	77.5	78.5	80.2	76.9
15	84.0	84.0#	83.4	81.3
16	80.2	80.6	81.1	----
17	79.1#	79.2	79.4	----
18	79.0	79.1	80.0	78.2
19	77.2	77.5	78.2	76.6
20	77.2	77.6	77.5	75.2
21	75.7	75.5	76.5	74.4
22	74.4	75.0	75.5	73.2
23	74.0	74.7	75.1	----
24	73.5	73.8	73.6	----
25	72.0	72.2	72.0	69.7
26	70.9	71.4	71.4	69.3
27	70.9	71.7	71.8	69.5
28	70.5	70.9	71.4	69.0
29	70.5	71.0	70.7	68.7
30	70.6	70.8	71.4	----
Mean:	73.9	74.2	74.7	72.5

Corrected for burst.

November 1985

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY	CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Nov.			H M	H M	MINUTES		
11	20 GRF	SimpIII GRF	17 25	17 50	75	1.0	0.5
13	22 GRF	SimpIIIF GRF	17 00	17 10	25	1.4	0.5
15	┌27 RF	Rise & Fall	14 25	Indet.	190	1.6	1.2**
	|24 R	Rise	14 25	15 30	65	1.6	0.6**
	|24P R	Post Rise	15 30	-- --	100	1.6	---**
	└26 FAL	Fall	17 10	17 35	25	-1.6	-0.8**
	260 FAL	Fall Only	18 00	18 30	30	-1.2	-0.6**
17	┌27 RF	Rise & Fall	13 20	Indet.	140	1.4	1.1**
	|24 R	Rise	13 20	13 40	20	1.4	0.7**
	|24P R	Post Rise	13 40	-- --	80	1.4	---**
	└26 FAL	Fall	15 00	15 40	40	-1.4	-0.7**

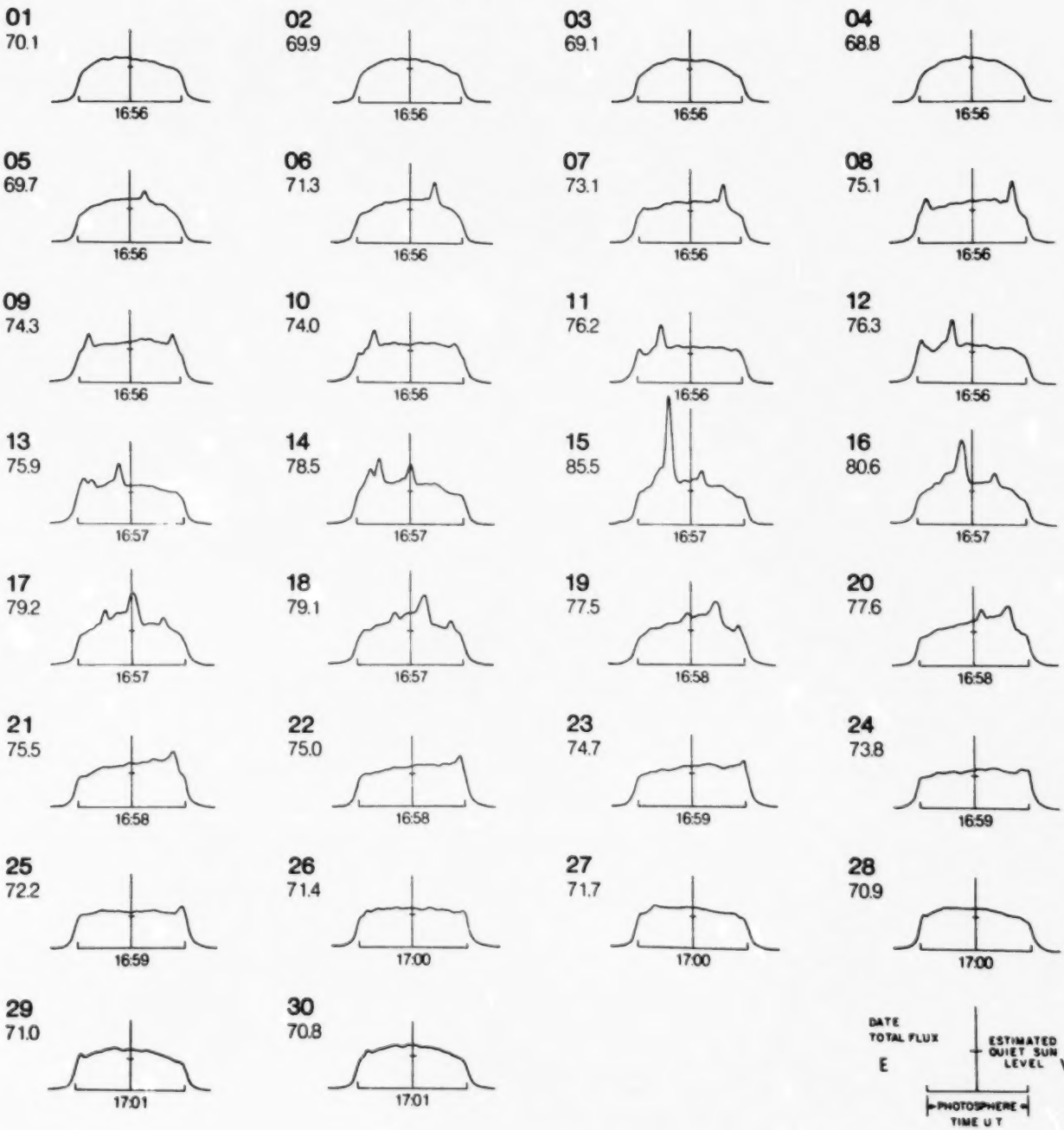
**Only observed at ARO, Lake Traverse.

EAST-WEST SOLAR SCANS

NOVEMBER 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution



December 1985

HERZBERG INSTITUTE OF ASTROPHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO
CANADA

SERIES C & D

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO) AT 17:00 U.T.

Series D is the best estimate of absolute value and is obtained by using the multiplier .90 recommended by Commission V of URSI

1985	Observed	Adj. to 1 AU	
Dec.	Series C	Series C	Series D
1	69.8	67.8	61.0
2	70.4	68.4	61.6
3	70.5	68.5	61.6
4	70.3	68.3	61.5
5	71.8	69.7	62.7
6	73.2	71.1	64.0
7	74.1	71.9	64.7
8	75.3	73.0	65.7
9	77.5	75.2	67.7
10	77.9	75.6	68.0
11	79.0	76.6	68.9
12	79.8	77.3	69.6
13	78.0	75.6	68.0
14	78.8	76.4	68.8
15	82.8	80.2	72.2
16	86.5	83.7	75.3
17	82.9	80.2	72.2
18	81.0	78.4	70.6
19	80.1	77.5	69.8
20	77.9#	75.4#	67.9#
21	77.6	75.1	67.6
22	75.9	73.5	66.1
23	73.6	71.2	64.1
24	72.3	69.9	62.9
25	69.6	67.3	60.6
26	68.6	66.3	59.7
27	68.5	66.2	59.6
28	68.5	66.2	59.6
29	68.3	66.0	59.4
30	68.6	66.3	59.7
31	68.9	66.6	59.9
Mean:	74.8	72.4	65.2

Corrected for burst.

December 1985

SERIES C

DAILY VALUES OF SOLAR FLUX AT 2800 MHZ (OTTAWA-ARO)

AND AT 2700 MHZ (PENTICTON-DRAO)

OBSERVED VALUES

1985	OTTAWA - ARO			PENTICTON - DRAO
Dec.	14:00	17:00	20:00	19:35
1	69.7	69.8	69.9	----
2	69.9	70.4	70.7	68.7
3	70.0	70.5	71.4	69.3
4	69.7	70.3	71.2	69.1
5	70.9	71.8	72.6	69.8
6	72.4	73.2	73.7	70.6
7	72.9	74.1	74.5	----
8	74.6	75.3	76.1	----
9	77.0	77.5	78.0	75.6
10	77.6	77.9	78.9	75.9
11	78.6	79.0	79.3	77.4
12	79.2	79.8	80.0	76.7
13	78.0	78.0	78.5	75.6
14	78.7	78.8	78.4	----
15	81.6	82.8	85.5	----
16	85.5	86.5	87.1	84.4
17	81.7	82.9	82.8#	81.1#
18	79.6	81.0	81.2	79.9
19	78.7	80.1	80.4	78.8
20	76.0	77.9#	78.0	76.2
21	76.3	77.6	77.5	----
22	74.8	75.9	75.9	----
23	73.1	73.6	74.3	71.1
24	71.6	72.3	72.1	70.9
25	69.6a	69.6	70.4	----
26	67.1	68.6	70.0	----
27	67.5	68.5	69.4	67.2
28	67.1	68.5	69.3	----
29	66.9	68.3	69.5	----
30	67.5	68.6	69.6	67.2
31	68.0	68.9	69.7	67.2
Mean:	73.9	74.8	75.4	73.6

Corrected for burst.
a) Extrapolated

December 1985

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 AND 2800 MHZ

DATE	KEY	CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
Dec.			H M	H M	MINUTES		
11	-	Incomplete	E14 17	14 18	>5	1.6	---**
	1 S	Simple I	21 09	21 11	5	1.2	0.6*
15	21 GRF	SimpIIIA GRF	14 25	15 35	110	2.8	1.4**
	2 S/F	Simple IF	15 29.5	15 30.1	6	1.6	0.8**
	21 GRF	SimpIIIA GRF	18 05	18 40	65	2.4	1.2
	2 S/F	Simple IF	18 34	18 35.8	6	2.4	0.9
	4 S/F	Simple IIF	22 16	22 16.3	2	54.0	4.2*
16	22 GRF	SimpIIIF GRF	16 50	17 40	115	1.6	0.8
17	20 GRF	SimpIII GRF	14 50	15 40	120	1.4	0.8**
	20 GRF	SimpIII GRF	17 20	18 00	60	1.4	0.9**
	20 GRF	SimpIII GRF	18 40	19 35	180	2.4	1.6
18	20 GRF	SimpIII GRF	20 53	21 01	20	3.6	1.2*
20	21 GRF	SimpIIIA GRF	16 30	16 55	120	2.8	1.4**
	1 S	Simple I	16 36	16 39	4	0.8	0.4**

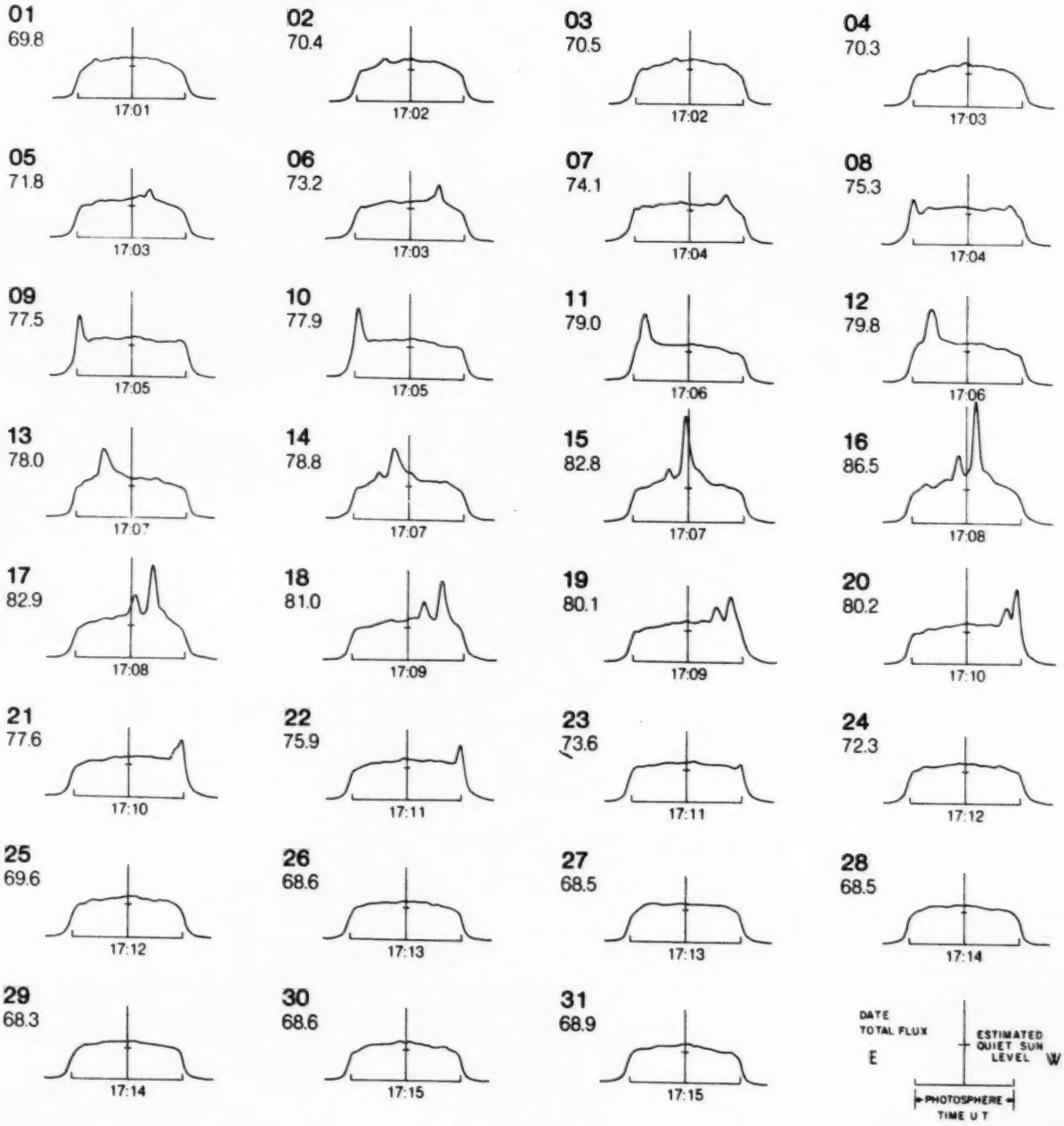
* Only observed at DRAO, Penticton.
**Only observed at ARO, Lake Traverse.

EAST-WEST SOLAR SCANS

DECEMBER 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

10·7 cm
Fan Beam with 1·5 minutes of arc
E-W Resolution



OTTAWA
2800 MHZ 17 U.T. OBSERVED SERIES C OTTAWA 2800 MHZ

1985 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	70.7	74.4	70.6	72.3	79.3#	67.5	74.4	78.2	71.7	68.2	70.1	69.8	1
2	70.1	76.0	70.3	72.7	75.3	70.4	76.5#	78.1	71.5	67.4	69.9	70.4	2
3	70.0	75.8	70.2	72.5A	71.4	72.5	78.6	76.9	71.9	68.6	69.1	70.5	3
4	70.1	72.9	69.7	71.8	69.6	75.3	77.8	77.1	72.3	68.3	68.8	70.3	4
5	69.3	73.3	68.6	71.1	70.1	81.8	80.6	76.3	71.1	67.0	69.7	71.8	5
6	70.2	72.6	69.1	70.4	73.7	84.9	84.6	75.7	71.4	66.1	71.3	73.2	6
7	70.4	72.3	69.0	70.2	77.6	85.8	94.5	77.3	69.8	66.0	73.1	74.1	7
8	69.7	74.5	69.7	69.7	82.1	86.3	93.5#	76.4	69.3	65.9	75.1	75.3	8
9	70.4	75.2	69.7	69.2	87.9	87.1	97.6#	72.9	69.6	66.2	74.3	77.5	9
10	69.7	75.6	68.9	69.4	89.9	88.9	101.2#	70.9	69.3	66.9	74.0	77.9	10
11	70.0	75.2	70.5	68.7	88.1	88.5	94.1	66.6	68.3	68.0	76.2	79.0	11
12	70.7	74.2	70.1	69.3	90.2	87.1	89.9	67.9	67.6	67.2	76.3	79.8	12
13	75.1	72.6	70.3	69.4	90.0	86.4	82.8	67.2	69.8	67.0	75.9	78.0	13
14	74.8	72.4	70.3	70.2	88.7#	82.7	74.0	67.5	69.5	70.2	78.5	78.8	14
15	74.9	72.0	70.4	69.5	90.0#	81.2	70.7	67.3	70.3	72.1	84.0#	82.8	15
16	77.2	71.5	70.8	68.9	93.4	78.4	69.6	66.5	69.5	73.7	80.6	86.5	16
17	78.3	72.6	72.8	69.6	90.2	74.9	69.6	66.2	69.3	76.0	79.2	82.9	17
18	76.5	75.1#	75.3	71.1	90.5	71.4	69.5	66.9	69.8	76.1	79.1	81.0	18
19	77.9	77.9	74.8	71.1	87.5	69.9	69.4	67.5	70.1	78.3	77.5	80.1	19
20	84.4#	76.7	74.8	71.6	84.7	69.6	69.4	68.9	69.2	80.1	77.6	77.9#	20
21	87.7#	75.9	76.6#	77.1	82.3#	69.2	69.0	68.8	69.0	85.5	75.5	77.6	21
22	88.0	74.9	76.4	88.8	80.7#	69.3	68.8	71.1	69.3	95.3	75.0	75.9	22
23	85.1	73.2	77.8	92.3#	78.0	69.5	68.9	71.3	68.7	94.1#	74.7	73.6	23
24	80.7	72.0	80.1	87.9#	76.3	68.5	68.8	70.5	68.6	93.5	73.8	72.3	24
25	76.3	71.5	78.9	94.1	75.2	68.7	73.3	70.9	68.4	89.6#	72.2	69.6	25
26	73.3	71.1	80.0A	87.2#	73.5	67.7	75.0	70.8	68.1	84.0	71.4	68.6	26
27	71.7	70.2	77.7A	79.5	72.6	67.9	76.8	71.6	67.4	79.5#	71.7	68.5	27
28	71.8	71.1	77.9A	77.0	70.8	68.7	78.8	71.7	67.5	77.7	70.9	68.5	28
29	70.8		76.9A	82.0	70.5	69.9	81.0	71.7	68.1	74.6	71.0	68.3	29
30	70.4		76.0A	79.6	69.5	72.3	81.3	72.5	68.1	71.5	70.8	68.6	30
31	72.0A		76.6A		67.7		80.0	72.7		70.6		68.9	31
MEAN	74.5	73.7	73.3	75.1	80.2	76.1	78.7	71.5	69.5	74.7	74.2	74.8	

ANNUAL MEAN 74.7

OTTAWA
2800 MHZ 17 U.T. ADJUSTED TO 1 A.U. SERIES C OTTAWA
2800 MHZ

1985 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	68.4	72.2	69.3	72.2	80.6#	69.5	76.9	80.5	73.0	68.3	69.0	67.8	1
2	67.8	73.8	69.1	72.6	76.5	72.4	79.1#	80.4	72.8	67.5	68.8	68.4	2
3	67.7	73.6	69.0	72.5A	72.6	74.6	81.3	79.2	73.1	68.7	68.0	68.5	3
4	67.8	70.9	68.6	71.9	70.8	77.5	80.4	79.3	73.5	68.3	67.6	68.3	4
5	67.0	71.2	67.5	71.2	71.4	84.3	83.3	78.5	72.2	67.0	68.5	69.7	5
6	67.9	70.6	68.1	70.5	75.0	87.4	87.5	77.9	72.5	66.0	70.0	71.1	6
7	68.1	70.3	68.0	70.3	79.1	88.4	97.7	79.5	70.8	65.9	71.8	71.9	7
8	67.4	72.5	68.7	69.9	83.7	88.9	96.7#	78.5	70.3	65.8	73.7	73.0	8
9	68.1	73.2	68.7	69.4	89.6	89.8	100.9#	74.9	70.6	66.0	72.9	75.2	9
10	67.4	73.6	68.0	69.7	91.7	91.7	104.6#	72.8	70.3	66.7	72.5	75.6	10
11	67.7	73.2	69.6	69.0	89.9	91.2	97.3	68.4	69.2	67.7	74.7	76.6	11
12	68.4	72.3	69.3	69.6	92.1	89.8	92.9	69.7	68.5	66.9	74.7	77.3	12
13	72.6	70.8	69.5	69.8	91.9	89.2	85.5	68.9	70.7	66.7	74.3	75.6	13
14	72.3	70.6	69.5	70.6	90.7#	85.3	76.4	69.3	70.4	69.8	76.9	76.4	14
15	72.4	70.2	69.6	70.0	92.0#	83.8	73.0	69.0	71.1	71.7	82.2#	80.2	15
16	74.7	69.8	70.1	69.4	95.5	80.9	71.9	68.2	70.3	73.2	78.8	83.7	16
17	75.8	70.9	72.1	70.2	92.3	77.3	71.9	67.9	70.0	75.5	77.4	80.2	17
18	74.1	73.4#	74.6	71.7	92.7	73.8	71.8	68.6	70.4	75.5	77.3	78.4	18
19	75.4	76.1	74.2	71.7	89.6	72.2	71.7	69.1	70.7	77.7	75.6	77.5	19
20	81.7#	75.0	74.2	72.3	86.7	71.9	71.7	70.6	69.8	79.4	75.7	75.4#	20
21	84.9#	74.2	76.1#	77.9	84.4#	71.5	71.2	70.4	69.6	84.7	73.7	75.1	21
22	85.3	73.3	75.9	89.8	82.7#	71.6	71.0	72.7	69.8	94.3	73.1	73.5	22
23	82.5	71.7	77.3	93.3#	80.0	71.8	71.1	72.9	69.2	93.2#	72.8	71.2	23
24	78.2	70.5	79.6	89.0#	78.3	70.8	71.0	72.1	69.0	92.5	71.9	69.9	24
25	73.9	70.1	78.5	95.2	77.2	71.0	75.6	72.5	68.7	88.5#	70.3	67.3	25
26	71.0	69.7	79.7A	88.3#	75.5	70.0	77.4	72.3	68.4	83.0	69.5	66.3	26
27	69.5	68.9	77.4A	80.6	74.6	70.2	79.2	73.1	67.7	78.5#	69.8	66.2	27
28	69.6	69.7	77.7A	78.1	72.7	71.0	81.2	73.1	67.8	76.7	69.0	66.2	28
29	68.7		76.7A	83.2	72.5	72.3	83.5	73.1	68.3	73.6	69.1	66.0	29
30	68.3		75.8A	80.8	71.4	74.8	83.8	73.9	68.3	70.5	68.8	66.3	30
31	69.9A		76.4A		69.6		82.4	74.1		69.5		66.6	31
MEAN	72.1	71.9	72.5	75.7	82.0	78.5	81.3	73.3	70.2	74.2	72.6	72.4	

ANNUAL MEAN 74.7

OTTAWA
2800 MHZ 17 U.T. ADJUSTED TO 1 A.U. SERIES D OTTAWA 2800 MHZ

1985 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	61.6	65.0	62.4	65.0	72.5#	62.5	69.2	72.4	65.7	61.5	62.1	61.0	1
2	61.0	66.4	62.2	65.3	68.8	65.2	71.2#	72.4	65.5	60.8	61.9	61.6	2
3	60.9	66.2	62.1	65.3A	65.3	67.1	73.2	71.3	65.8	61.8	61.2	61.6	3
4	61.0	63.8	61.7	64.7	63.7	69.8	72.4	71.4	66.1	61.5	60.8	61.5	4
5	60.3	64.1	60.8	64.1	64.3	75.9	75.0	70.6	65.0	60.3	61.6	62.7	5
6	61.1	63.5	61.3	63.4	67.5	78.7	78.8	70.1	65.3	59.4	63.0	64.0	6
7	61.3	63.3	61.2	63.3	71.2	79.6	87.9	71.5	63.7	59.3	64.6	64.7	7
8	60.7	65.3	61.8	62.9	75.3	80.0	87.0#	70.6	63.3	59.2	66.3	65.7	8
9	61.3	65.9	61.8	62.5	80.6	80.8	90.8#	67.4	63.5	59.4	65.6	67.7	9
10	60.7	66.2	61.2	62.7	82.5	82.5	94.1#	65.5	63.3	60.0	65.3	68.0	10
11	60.9	65.9	62.6	62.1	80.9	82.1	87.6	61.6	62.3	60.9	67.2	68.9	11
12	61.6	65.1	62.4	62.6	82.9	80.8	83.6	62.7	61.6	60.2	67.2	69.6	12
13	65.3	63.7	62.5	62.8	82.7	80.3	76.9	62.0	63.6	60.0	66.9	68.0	13
14	65.1	63.5	62.5	63.5	81.6#	76.8	68.8	62.4	63.4	62.8	69.2	68.8	14
15	65.2	63.2	62.6	63.0	82.8#	75.4	65.7	62.1	64.0	64.5	74.0#	72.2	15
16	67.2	62.8	63.1	62.5	85.9	72.8	64.7	61.4	63.3	65.9	70.9	75.3	16
17	68.2	63.8	64.9	63.2	83.1	69.6	64.7	61.1	63.0	67.9	69.7	72.2	17
18	66.7	66.1#	67.1	64.5	83.4	66.4	64.6	61.7	63.4	67.9	69.6	70.6	18
19	67.9	68.5	66.8	64.5	80.6	65.0	64.5	62.2	63.6	69.9	68.0	69.8	19
20	73.5#	67.5	66.8	65.1	78.0	64.7	64.5	63.5	62.8	71.5	68.1	67.9#	20
21	76.4#	66.8	68.5#	70.1	76.0#	64.3	64.1	63.4	62.6	76.2	66.3	67.6	21
22	76.8	66.0	68.3	80.8	74.4#	64.4	63.9	65.4	62.8	84.9	65.8	66.1	22
23	74.3	64.5	69.6	84.0#	72.0	64.6	64.0	65.6	62.3	83.9#	65.5	64.1	23
24	70.4	63.4	71.6	80.1#	70.5	63.7	63.9	64.9	62.1	83.3	64.7	62.9	24
25	66.5	63.1	70.6	85.7	69.5	63.9	68.0	65.3	61.8	79.6#	63.3	60.6	25
26	63.9	62.7	71.7A	79.5#	67.9	63.0	69.7	65.1	61.6	74.7	62.5	59.7	26
27	62.5	62.0	69.7A	72.5	67.1	63.2	71.3	65.8	60.9	70.6#	62.8	59.6	27
28	62.6	62.7	69.9A	70.3	65.4	63.9	73.1	65.8	61.0	69.0	62.1	59.6	28
29	61.8		69.0A	74.9	65.3	65.1	75.1	65.8	61.5	66.2	62.2	59.4	29
30	61.5		68.2A	72.7	64.3	67.3	75.4	66.5	61.5	63.4	61.9	59.7	30
31	62.9A		68.8A		62.6		74.2	66.7		62.5		59.9	31
MEAN	64.9	64.7	65.3	68.1	73.8	70.6	73.2	65.9	63.2	66.7	65.3	65.2	

ANNUAL MEAN 67.2

PENTICTON
2700 MHZ 20 U.T. OBSERVED SERIES C PENTICTON 2700 MHZ

1985 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	73.3	68.3	71.4	----	----	----	76.2	----A	66.5	68.3	----	1
2	69.4	----	----	70.5	73.9	----	74.5	75.9	----A	66.7	----	68.7	2
3	68.9	----	----	71.1	69.7	70.6	76.2	----	70.7	67.1	----	69.3	3
4	68.7	72.2	68.0	70.1	----	73.5	76.9	----	70.3	66.6	66.7	69.1	4
5	----	72.8	67.3	----	----	79.7	79.7	----	68.4	----	68.0	69.8	5
6	----	71.4	66.7	----	72.5	82.3	----	73.9	70.5	----	69.7	70.6	6
7	69.6	71.5#	67.4	----	77.0	85.1	----	75.9	----	64.5	72.1	----	7
8	68.6	73.4	68.0	----	82.4	----	91.3	73.8	----	63.6	74.0	----	8
9	69.2	----	----B	68.0	85.2#	----	95.0	71.3	68.3	64.1	----	75.6	9
10	68.5	----	----B	68.2	89.0	87.5	98.5	----A	67.6	64.9	----	75.9	10
11	69.2	74.3	69.2	67.5	----	86.1	92.7	----A	66.2	66.0	----	77.4	11
12	----	72.8	69.2	67.6	----	84.9	86.0#	66.2	65.7	----	75.1	76.7	12
13	----	71.8	69.3	----	87.8	84.8	----	65.5	68.9	----	75.0	75.6	13
14	75.6	71.9	68.6	----	86.6	81.1	----	65.1	----	----	76.9	----	14
15	73.8#	71.4	69.5	68.3	89.0	----	68.7	65.7	----	70.0	81.3	----	15
16	76.3#	----	----	67.1	90.7	----	68.4	65.4	67.8	72.8	----	84.4	16
17	77.2	----	----	68.9	89.3	72.8	67.9	----	66.8	74.9	----	81.1#	17
18	74.8	73.5	73.5#	70.2	----	69.6	67.1	----	67.5	74.6	78.2	79.9	18
19	----	76.4	73.3	69.8	----	63.7	67.2	65.5	68.1	----	76.6	78.8	19
20	----	75.8	74.0	----	----	68.0	----	67.1	67.1	----	75.2	76.2	20
21	87.5#	73.3	74.3#	----	81.5	67.0	----	66.6	----	85.0	74.4	----	21
22	86.4	72.7	74.3	86.8	78.9	----	67.3	69.0	----	93.8	73.2	----	22
23	82.3#	----	----	90.6#	76.3	----	66.7	69.3	67.2	91.4#	----	71.1	23
24	78.5	----	----	86.7#	74.1	67.1	67.3	----	66.6	91.7	----	70.9	24
25	74.3	69.8	76.5	90.9#	----	66.8	71.6	----	67.1	87.2	69.7	----	25
26	----	69.1	77.4	85.7	----	65.6	73.0	69.3	67.7	----	69.3	----	26
27	----	69.9	75.6	----	71.1	66.1	----	70.1	65.6	----	69.5	67.2	27
28	70.4	69.9	74.8	----	69.4	67.0	----	69.9	----	75.9	69.0	----	28
29	69.8		74.8	79.8	68.5	----	79.5	69.6	----	72.4	68.7	----	29
30	69.4		----	78.1	67.4	----	79.4	71.1	66.4	70.5	----	67.2	30
31	70.6		----		65.7		77.7	----		68.9		67.2	31
MEAN	73.6	72.4	71.4	74.9	78.4	74.7	76.9	69.6	67.7	73.6	72.5	73.6	

ANNUAL MEAN 73.3

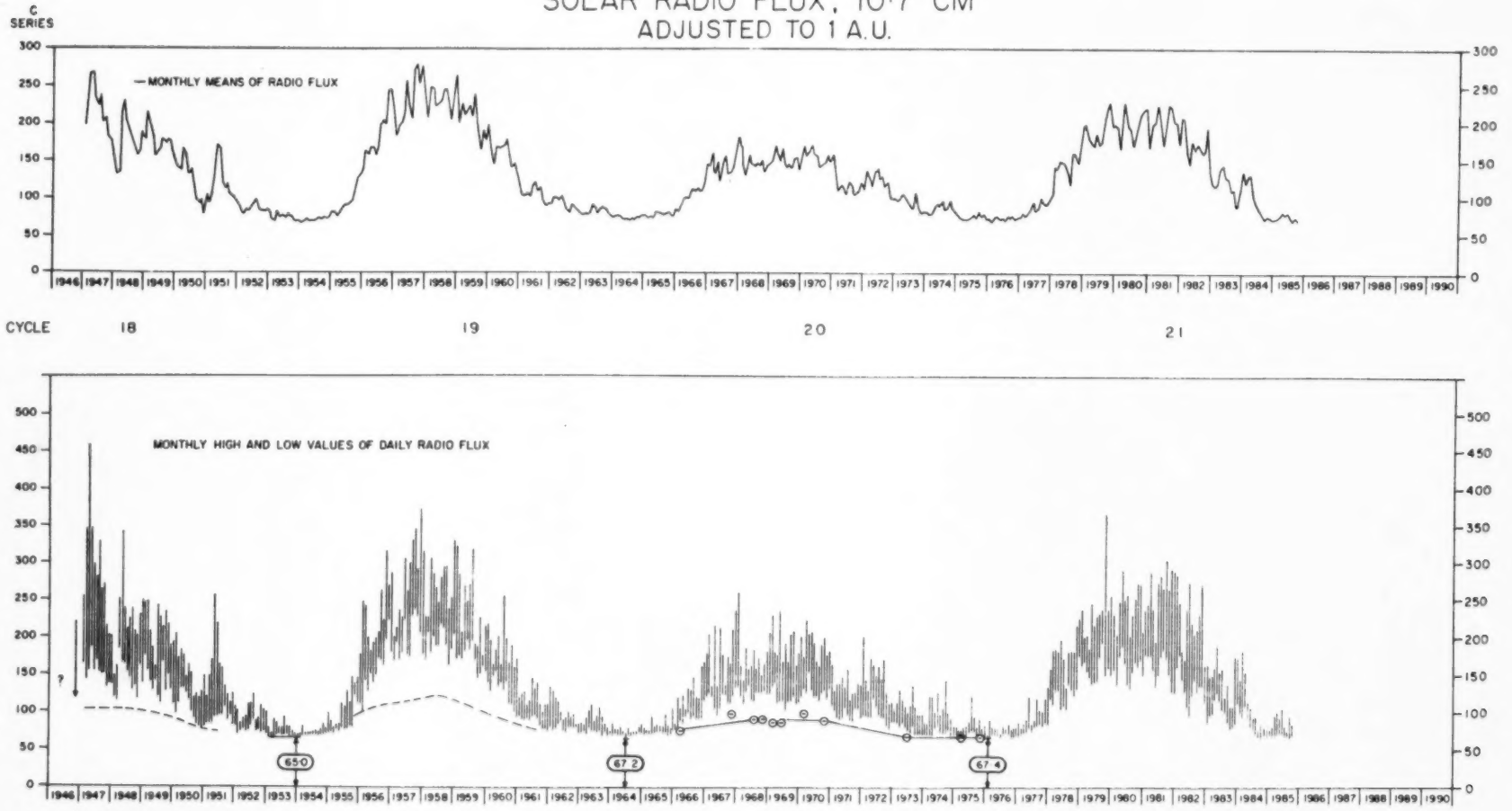
PENTICTON
2700 MHZ 20 U.T. ADJUSTED TO 1 A.U. SERIES C PENTICTON 2700 MHZ

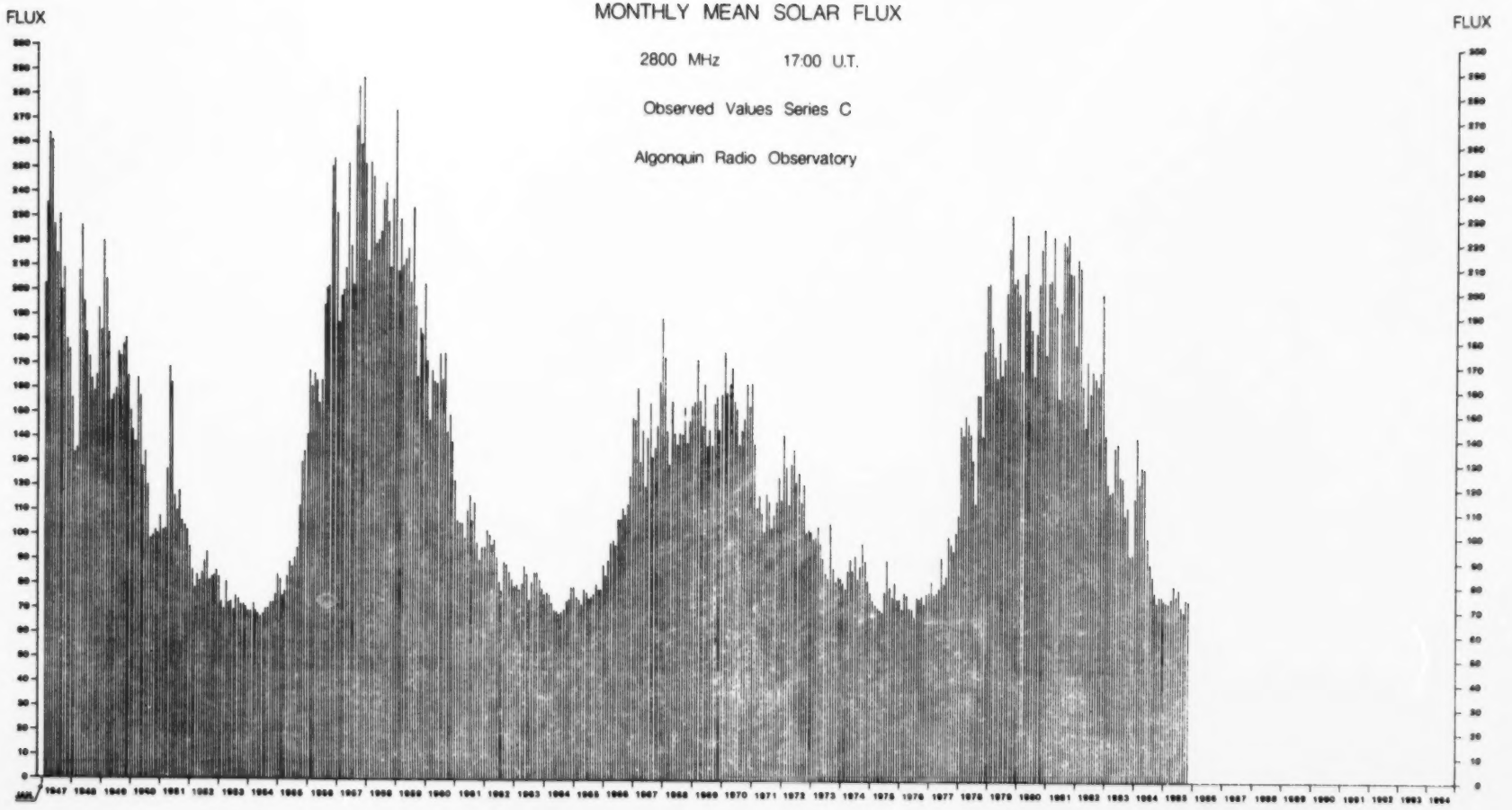
1985 1985

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	----	71.2	67.1	71.3	----	----	----	78.5	----A	66.6	67.3	----	1
2	67.1	----	----	70.4	75.1	----	77.0	78.2	----A	66.8	----	66.8	2
3	66.6	----	----	71.1	70.9	72.6	78.8	----	71.9	67.2	----	67.3	3
4	66.4	70.2	66.9	70.2	----	75.6	79.5	----	71.5	66.6	65.6	67.1	4
5	----	70.8	66.2	----	----	82.1	82.4	----	69.5	----	66.8	67.8	5
6	----	69.4	65.7	----	73.8	84.8	----	76.0	71.6	----	68.4	68.6	6
7	67.3	69.6#	66.4	----	78.5	87.7	----	78.0	----	64.4	70.8	----	7
8	66.3	71.4	67.0	----	84.0	----	94.4	75.9	----	63.5	72.6	----	8
9	66.9	----	----B	68.2	86.8#	----	98.2	73.3	69.3	63.9	----	73.3	9
10	66.2	----	----B	68.5	90.8	90.2	101.8	----A	68.5	64.7	----	73.6	10
11	66.9	72.4	68.3	67.8	----	88.8	95.9	----A	67.1	65.7	----	75.0	11
12	----	70.9	68.4	67.9	----	87.5	88.8#	68.0	66.6	----	73.5	74.3	12
13	----	70.0	68.5	----	89.6	87.5	----	67.2	69.8	----	73.4	73.3	13
14	73.1	70.1	67.8	----	88.5	83.7	----	66.8	----	----	75.3	----	14
15	71.4#	69.6	68.7	68.8	91.0	----	71.0	67.4	----	69.6	79.5	----	15
16	73.9#	----	----	67.6	92.8	----	70.7	67.0	68.5	72.3	----	81.7	16
17	74.7	----	----	69.5	91.4	75.1	70.1	----	67.5	74.4	----	78.5#	17
18	72.4	71.8	72.8#	70.8	----	71.9	69.3	----	68.1	74.0	76.4	77.3	18
19	----	74.6	72.7	70.4	----	71.0	69.4	67.1	68.7	----	74.8	76.3	19
20	----	74.1	73.4	----	----	70.2	----	68.7	67.6	----	73.4	73.8	20
21	84.7#	71.7	73.8#	----	83.5	69.2	----	68.1	----	84.2	72.6	----	21
22	83.7	71.1	73.8	87.8	80.9	----	69.5	70.6	----	92.9	71.4	----	22
23	79.7#	----	----	91.6#	78.3	----	68.8	70.8	67.7	90.5#	----	68.8	23
24	76.1	----	----	87.7#	76.0	69.3	69.5	----	67.0	90.7	----	68.6	24
25	72.0	68.4	76.1	92.0#	----	69.0	73.9	----	67.4	86.2	67.9	----	25
26	----	67.7	77.1	86.8	----	67.8	75.3	70.8	68.0	----	67.5	----	26
27	----	68.6	75.3	----	73.0	68.3	----	71.6	65.9	----	67.6	65.0	27
28	68.3	68.6	74.6	----	71.3	69.3	----	71.3	----	74.9	67.1	----	28
29	67.7		74.6	81.0	70.4	----	82.0	71.0	----	71.4	66.8	----	29
30	67.3		----	79.3	69.3	----	81.9	72.5	66.6	69.5	----	65.0	30
31	68.6		----		67.5		80.0	----		67.9		65.0	31
MEAN	71.2	70.6	70.7	75.4	80.2	77.1	79.5	71.4	68.4	73.1	70.9	71.4	

ANNUAL MEAN 73.3

SOLAR RADIO FLUX, 10·7 CM
ADJUSTED TO 1 A.U.


C SERIES
MONTHLY MEANS OF RADIO FLUX
MONTHLY HIGH AND LOW VALUES OF DAILY RADIO FLUX
CYCLE 18 19 20 21
65·0
67·2
67·4
Vertical bars indicate high and low daily values within each month and define the slowly varying component of flux
Dashed curve approximately separates the flux associated with centers of activity from a quiet sun derived as the flux intercept for zero sunspot number in annual plots of daily flux versus sunspot number
Quiet solar flux derived from some radio cool regions on high resolution solar strip scans. Such regions are associated with x-ray coronal holes
First and last appearance of this basic emission given by horizontal line. Radio minimum is determined by selecting a month with minimum values of the slowly varying component as well as the basic flux
Magnitude of the basic quiet sun obtained as the lowest daily flux value observed during minimum sunspot activity and indicated in cartouche at time indicated


MONTHLY MEAN SOLAR FLUX
2800 MHz 17:00 U.T.
Observed Values Series C
Algonquin Radio Observatory
FLUX
FLUX